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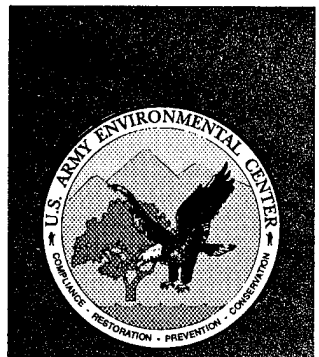

FINAL

ENHANCED PRELIMINARY ASSESSMENT REPORT FOR TOOELE ARMY DEPOT - NORTH AREA TOOELE, UTAH

Submitted to:

U.S. ARMY ENVIRONMENTAL CENTER
ABERDEEN PROVING GROUND, MARYLAND 210

Submitted by:

AGEISS ENVIRONMENTAL, INC.
1900 Grant Street, Suite 1130
Denver, Colorado 80203

USAEC Contract DAAA15-93-D-0006
Delivery Order 001

October 5, 1994

Unlimited Distribution
Approved for Public Release

AEC Form 45, 1 Feb 93 replaces THAMA Form 45 which is obsolete.

ADDENDUM

JANUARY 30, 1995

FINAL ENHANCED PRELIMINARY ASSESSMENT REPORT FOR TOOELE ARMY DEPOT - NORTH AREA TOOELE, UTAH

The revision listed below is necessary based on comments received from the State of Utah review of the Final Enhanced Preliminary Assessment (ENPA) Report for the Tooele Army Depot - North Area, Tooele, Utah, submitted to the U.S. Army Environmental Center on October 5, 1994 by AGEISS Environmental, Inc.

1) Replace the last sentence in Section 3.11.1 on Page 50 of the October 5, 1994 Final ENPA Report with the following sentence to provide additional clarification, as requested by the State of Utah.

> "None of the transformers from which PCBs were released, as identified during the 1993 Audit Inspection, were located in the BRAC parcel."

REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION Unclassified	1b. RESTRICTIVE MARKINGS
2a. SECURITY CLASSIFICATION AUTHORITY	3. DISTRIBUTION/AVAILABILITY OF REPORT
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE	
4. PERFORMING ORGANIZATION REPORT NUMBERS(S)	5. MONITORING ORGANIZATION REPORT NUMBER(S)
6a. NAME OF PERFORMING ORGANIZATION AGEISS Environmental, Inc. 6b. OFFICE SYMBOL *(if applicable)*	7a. NAME OF MONITORING ORGANIZATION U.S. Army Environmental Center
6c. ADDRESS *(City, State, and ZIP Code)* 1900 Grant Street, Suite 1130 Denver, CO 80203	7b. ADDRESS *(City, State, and ZIP Code)* ATTN: SFIM-AEC-BCD Building E4480 Aberdeen Proving Ground, MD 21010-5401
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FIELD	GROUP	SUB-GROUP	Enhanced Preliminary Assessment, ENPA, Base Realignment, Base Closure, BRAC, BRAC Parcel, Tooele Army Depot, North Area

19. ABSTRACT *(Continue on reverse if necessary and identify by block number)*

This Final ENPA report documents the existing environmental conditions associated with a 1,684 acre parcel of Tooele Army Depot - North Area (TEAD-N) that is scheduled for realignment and to provide recommendations for further action. The Final ENPA Report presents a summary and evaluation of the data relevant to the BRAC parcel located at TEAD-N within the report, the subject property and its surrounding environment and land uses, as well as previous environmental investigations conducted at TEAD-N are described. Nineteen AREEs are identified and characterized, and the known and potential releases, conclusions, and recommendations regarding each of the AREEs are included in the discussions. Potential human and environmental receptors of any releases or potential releases are also evaluated and discussed as part of the report. Of the nineteen AREEs identified within the BRAC parcel, Phase I RFIs are recommended for five, since no evidence of previous investigation was found. Further investigation under ongoing Phase II RFIs is recommended for seven AREEs based on conclusions and data gaps identified under prior investigations. Further action under the ongoing CERCLA program is recommended for one AREE. Inclusion in the upcoming corrective measures study, with some additional contamination assessment sampling, is recommended for one AREE. Finally, management under installation-based programs is recommended for five AREEs. Areas with minimal potential for environmental problems associated with property transfer are also delineated.

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All other editions are obsolete.

SECURITY CLASSIFICATION ON THIS PAGE
UNCLASSIFIED

FINAL

ENHANCED PRELIMINARY ASSESSMENT REPORT FOR TOOELE ARMY DEPOT - NORTH AREA TOOELE, UTAH

Submitted to:

U.S. ARMY ENVIRONMENTAL CENTER
ABERDEEN PROVING GROUND, MARYLAND 21020

Submitted by:

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1900 Grant Street, Suite 1130
Denver, Colorado 80203

USAEC Contract DAAA15-93-D-0006
Delivery Order 001

October 5, 1994

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LIST OF ABBREVIATIONS/ACRONYMS

ACM	Asbestos Containing Material
AGEISS	AGEISS Environmental, Inc.
AREE	Area Requiring Environmental Evaluation
Army	U.S. Army
AST	Above Ground Storage Tank
Bldg.	Building
BRAC	Base Realignment and Closure
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CMF	Consolidated Maintenance Facility
CMS	Corrective Measures Study
DOD	U.S. Department of Defense
DRMO	Defense Reutilization and Marketing Office
ENPA	Enhanced Preliminary Assessment
EP	Extraction Procedure
EPA	U.S. Environmental Protection Agency
ERI	Environmental Research, Inc.
°F	Degrees Fahrenheit
FFA	Federal Facility Agreement
FS	Feasibility Study
GAC	Granular Activated Carbon
gal	gallon(s)
gpd	gallons per day
ID	Identification
IRP	Installation Restoration Program
IWL	Industrial Waste Lagoon
IWTP	Industrial Wastewater Treatment Plant
KVA	Kilovoltamperes
lbs	pound(s)
mg/L	milligrams per liter
NA	Not Applicable
No.	Number
NPL	National Priorities List
OB	Open Burn
OD	Open Detonation
OIWL	Old Industrial Waste Lagoon
OSL	Open Storage Lot
OU	Operable Unit
PA	Preliminary Assessment
PCB	Polychlorinated biphenyl
PCP	Post-Closure Permit
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RI	Remedial Investigation
SVOC	Semivolatile Organic Compound
SWMU	Solid Waste Management Unit
TCE	Trichloroethylene

LIST OF ABBREVIATIONS/ACRONYMS (Continued)

TCLP	Toxicity Characteristic Leaching Procedure
TEAD	Tooele Army Depot
TEAD-N	Tooele Army Depot - North Area
TEAD-S	Tooele Army Depot - South Area
TEAD#	Tooele Army Depot Number
TNT	Trinitrotoluene
TRPH	Total Residual Petroleum Hydrocarbons
TSCA	Toxic Substances Control Act
µg/g	micrograms per gram
USAEC	U.S. Army Environmental Center
USDEQ-DSHW	State of Utah Department of Environmental Quality-Division of Solid and Hazardous Waste
USATHAMA	U.S. Army Toxic and Hazardous Materials Agency
USCOE	U.S. Army Corps of Engineers
UST	Underground Storage Tank
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

The U.S. Army Environmental Center tasked AGEISS Environmental, Inc. to prepare an Enhanced Preliminary Assessment (ENPA) under Contract DAAA15-93-D-0006, Delivery Order 001 as the first step in the Base Realignment and Closure (BRAC) process. The purpose of this ENPA report is to document the existing environmental conditions associated with a 1,684 acre parcel of Tooele Army Depot - North Area (TEAD-N) that is scheduled for realignment and to provide recommendations for further action.

The objectives of the TEAD-N ENPA are to identify and characterize all areas requiring environmental evaluation (AREEs), including areas that may require a site investigation; areas of environmental contamination that may require remedial action or removal action; other actions that may be necessary to address and resolve all identified environmental problems; and other environmental concerns that may present impediments to the expeditious transfer of applicable property. The ENPA report, prepared from a property transfer perspective, also addresses other environmental concerns not addressed under the U.S. Army's (Army's) Installation Restoration Program, such as asbestos, radon, and polychlorinated biphenyls. The procedures used to meet the objectives of the ENPA investigation included document and aerial photograph review; site visits; personnel interviews; and regulatory review.

This report is not intended to conform to or meet the objectives of current U.S. Environmental Protection Agency guidance for the preparation of Preliminary Assessments under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). The Army has historically prepared ENPA reports under similar formats for installations undergoing realignment or closure. The ENPA is intended to serve as an environmental baseline survey and a basis for follow-on environmental investigations or remediation.

The Final ENPA report presents a summary and evaluation of the data relevant to the BRAC parcel located at TEAD-N. Within the report, the subject property and its surrounding environment and land uses as well as previous environmental investigations conducted at TEAD-N are described. Nineteen AREEs are identified and characterized. Known and potential releases, conclusions, and recommendations regarding each of the AREEs are included in the discussions. Potential human and environmental receptors of any releases or potential releases are also evaluated and discussed as part of the report. Comments from State regulators on the Draft Final ENPA have been addressed in this final report version and are included as Appendix I to this report.

In this report, 19 AREEs are identified within the BRAC parcel. Phase I Resource Conservation and Recovery Act Facility Investigations (RFIs) are recommended for five of the AREEs, since no evidence of previous investigation was found. Further investigation under ongoing Phase II RFIs is recommended for seven AREEs based on conclusions and data gaps identified under prior investigations. Further action under the ongoing CERCLA program is recommended for one AREE. Inclusion in the upcoming Corrective Measures Study, with some additional contamination assessment sampling, is recommended for one AREE. Finally, management under installation-based programs is recommended for five AREEs. Areas with minimal potential for environmental problems associated with property transfer are also delineated.

1.0 INTRODUCTION

Under Contract DAAA15-93-D-0006, Delivery Order 001, the U.S. Army Environmental Center (USAEC) tasked AGEISS Environmental, Inc. (AGEISS) to prepare an Enhanced Preliminary Assessment (ENPA) and conduct an investigation for the realignment of a 1,684 acre, industrialized parcel located in the Tooele Army Depot - North Area (TEAD-N) at Tooele, UT.

1.1 ENPA REGULATORY BACKGROUND

Public Laws 100-526 and 101-510 designated more than 100 U.S. Department of Defense (DOD) facilities for closure and realignment. As a result, it became necessary to investigate and cleanup, as appropriate, environmental contamination at the U.S. Army (Army) Base Realignment and Closure (BRAC) property to facilitate property release and reuse. The BRAC environmental restoration program was established in 1989 when the first round of base closures was announced. Since 1989, subsequent rounds of BRAC properties have been identified through public law every 2 years. The BRAC environmental restoration program is patterned after the Army's Installation Restoration Program (IRP), but has been expanded to include categories of contamination, such as asbestos, radon, polychlorinated biphenyls (PCBs), and other environmental concerns that are not normally addressed under the IRP.

The BRAC environmental restoration program begins by conducting ENPAs. The term "enhanced" is used to distinguish these assessments from the previous Army IRP preliminary assessments (PAs), because the BRAC ENPAs are conducted from a property transfer perspective, and evaluate areas which are not typically included in the IRP (e.g., asbestos, radon, etc.). ENPAs include reviews of existing installation documents, regulatory records, and aerial photographs; site visits and visual inspections; and employee interviews.

In March 1993, the BRAC Commission called for the transfer of the Tooele Army Depot (TEAD) Maintenance Mission, Defense Depot Ogden, Tooele Operations Supply Mission, and the Defense Reutilization and Marketing Office (DRMO) to other DOD installations. Most of the depot industrial (maintenance) and administrative areas, except an enclave of 82 acres around the TEAD Headquarters and the ammunition storage areas, are included in the 1,684 acre parcel to be excessed.

1.2 OBJECTIVES

The objectives of the TEAD-N ENPA are to identify and characterize all areas requiring environmental evaluation (AREEs) including areas that may require a site investigation; areas that may require remedial or removal action; other actions that may be necessary to address and resolve all identified environmental problems; and other environmental concerns that may present impediments to the expeditious transfer of the applicable property.

It should be noted that the Army's ENPA is not intended to conform or meet the objectives of current U.S. Environmental Protection Agency (EPA) guidance for the preparation of PAs under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The Army has historically prepared ENPAs under similar formats for installations undergoing realignment or closure. Thus, the ENPA is intended to serve as an environmental baseline survey and or basis for follow-on environmental investigations or remediation.

1.3 PROCEDURES

The procedures used to conduct the ENPA investigation are discussed in this section. The procedures consist of document and aerial photograph review; site visits; and regulatory review, as discussed below.

1.3.1 Document Review

As part of the ENPA, AGEISS reviewed all available reports related to the ongoing CERCLA and Resource Conservation and Recovery Act (RCRA) investigations, as well as earlier environmental reports prepared for TEAD-N. Installation surveys for asbestos, PCBs, radon, and Underground Storage Tanks (USTs) were obtained and reviewed. The installation's spill report file was also reviewed. The updated spill report summary is provided in Appendix A.

Environmental Research Inc. (ERI) prepared an Aerial Photographic Site Analysis of the BRAC Parcel - Tooele Army Depot-North, Utah (ERI, 1993). In the report, an analysis was performed using aerial photography of the BRAC parcel from 1939 to 1987 which was not included in two previous installation aerial assessment reports dated January 1982 and July 1986. Photography from 1939, 1974, 1977, 1978, and 1987 was analyzed for the Maintenance and Supply Area portion of the BRAC parcel and included in the report. For the analysis of the Administration Area portion of the BRAC parcel, aerial photography from 1939, 1952, 1953, 1959, 1960, 1966, 1974, 1977, and 1987 was analyzed. Potential environmentally significant findings noted during this aerial photographic analysis include staining in open storage areas, former drain fields, trenches containing debris, and excavations. Specific descriptions of features pertaining to the BRAC parcel are discussed in Section 2.3. It should be noted, however, that these descriptions are interpretations and that ground-truthing is necessary for confirmatory purposes (ERI, 1993).

The EPA 1982 photographic interpretation of TEAD-N was reviewed to determine possible areas of past use, storage, treatment, and disposal of potentially toxic and hazardous materials within the BRAC parcel. This study analyzed aerial photographs from 1953, 1959, 1966, and 1981. Results of this study affecting the BRAC parcel are also incorporated into Section 2.3 of this report.

1.3.2 Site Visits

AGEISS conducted three site visits at TEAD-N. The first two were conducted on October 12 through 14, 1993 and October 25 through 28, 1993. The purpose of these two site visits was to obtain additional information through direct observation and interviews with personnel familiar with the property and its operations and history. During the site visits, visual inspections of the BRAC parcel were conducted; documents and inventories available at the installation were obtained and reviewed; other relevant data from the State and county government regulatory agencies were obtained; and personnel interviews were conducted. A list of personnel interviewed is provided in Appendix B. A third site visit was conducted on August 23, 1994. During this follow-up visit, additional information was gathered concerning the approximate 100 acres to the west and southwest of the Maintenance and Supply Area that was recently added to the BRAC parcel and is included in this Final ENPA.

1.3.3 Regulatory Review

The regulatory status of the BRAC parcel at TEAD-N was examined to determine the existence of and compliance with, for example, consent decrees, permits, injunctions, restraining orders, and memoranda of understanding or agreement. As part of this process, EPA Region VIII and the State of Utah's CERCLA and RCRA files were reviewed, and regulatory officials were interviewed.

Also, the Draft Final Report was reviewed by regulatory officials at the State of Utah Department of Environmental Quality-Division of Solid and Hazardous Waste (USDEQ-DSHW). These comments have been addressed and incorporated in this final version of ENPA. The regulatory comments and responses are included in Appendix I.

1.4 REPORT FORMAT

This ENPA report presents a summary and evaluation of the data relevant to the ENPA for the BRAC parcel located at TEAD-N. Section 2.0 describes the property and its surrounding environment and land uses as well as previous environmental investigations conducted at TEAD-N. Section 3.0 identifies and characterizes AREEs at the site, known and potential releases associated with AREEs, and conclusions and recommendations regarding AREEs. Section 4.0 discusses potential human and environmental receptors of any releases. Section 5.0 summarizes the findings and conclusions, discusses the quality and reliability of the supporting information, identifies areas requiring further action, and, as appropriate, suggests how such actions can be accomplished. Section 6.0 provides the references, and the appendices contain summary information obtained during the site visits.

2.0 PROPERTY CHARACTERIZATION

TEAD-N's location, history, and environmental setting are discussed in this section. This information is provided specifically for the BRAC parcel whenever possible.

2.1 PROPERTY LOCATION

TEAD-N is located in Tooele County, UT (Figure 2-1). TEAD-N is located within the Tooele Valley in the central portion of northern Utah, immediately west of the town of Tooele, about 35 miles southwest of Salt Lake City. The BRAC parcel that is the subject of this investigation is actually two geographically discrete parcels located within the industrialized land in the northeastern portion of TEAD-N (Figure 2-2).

2.2 HISTORICAL BACKGROUND

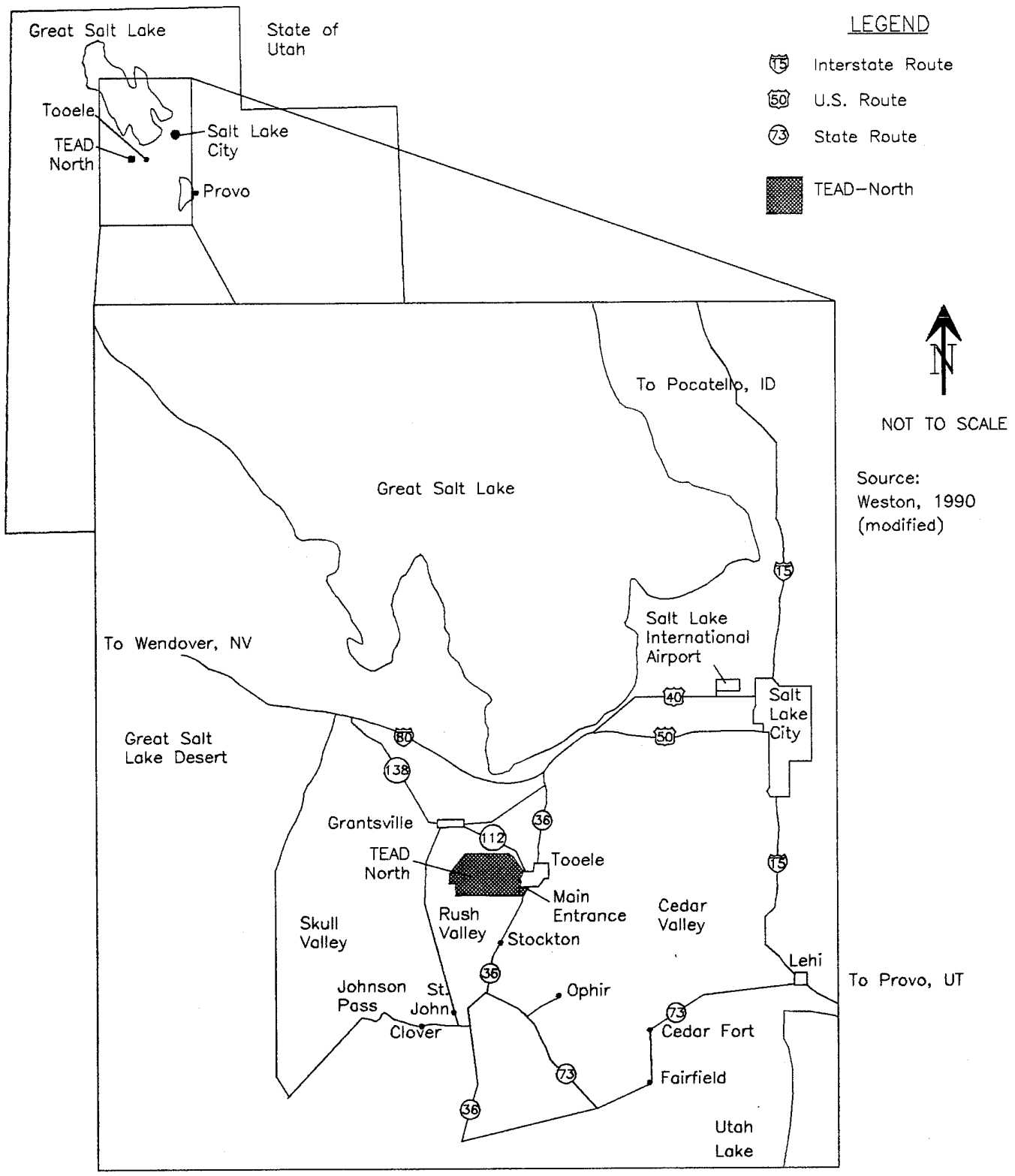
TEAD was established in 1942 as the Tooele Ordnance Depot by the Army Ordnance Department. TEAD-N was redesignated as such in 1962. Both the North and South Areas of TEAD are major ammunition storage and equipment maintenance installations that support other installations throughout the western U.S. The first mission for Tooele Ordnance Depot was to store vehicles, small arms, and fire control equipment for export. Other mission functions included overhauling and modifying tanks and track vehicles and their armaments. In general, Tooele was designated as a backup depot for Stockton Ordnance Depot and Benicia Arsenal, both in California.

In 1970, TEAD-N assumed maintenance mission responsibilities for topographic equipment, troop support items, construction equipment, power generators, and serviceable assets from the Granite City Army Depot in Illinois which was subsequently closed. In the 1980s, the maintenance missions at TEAD included the repair of tactical wheeled vehicles and power generation equipment. Along with these missions, all the secondary items of the components were rebuilt including engine and power trains. Approximately 4,500 engines and 12,000 power train components were overhauled each year.

The current mission of TEAD-N is to receive, store, issue, maintain, and dispose of munitions; to provide equipment maintenance and repair; to provide installation support to attached organizations; and to operate other facilities as assigned. TEAD-N covers an area of about 24,732 acres, and developed features include igloos, magazines, administrative buildings, industrial-maintenance areas, military and civilian housing, roads, hardstands for vehicle storage, and other allied infrastructure.

2.3 DESCRIPTION OF BRAC PARCEL

The BRAC parcel that is the subject of this investigation is actually two geographically discrete parcels located within the northeastern portion of TEAD-N. The largest parcel covers most of the Maintenance and Supply Area, while the smaller parcel is located in the Administrative Area (Figure 2-2). The area has many buildings and storage facilities, as discussed below and listed in Table 2-1.



Prepared for:

U.S. Army Environmental Center

Figure 2–1

TEAD–North Location Map

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Prepared by: AGEISS Environmental, Inc.

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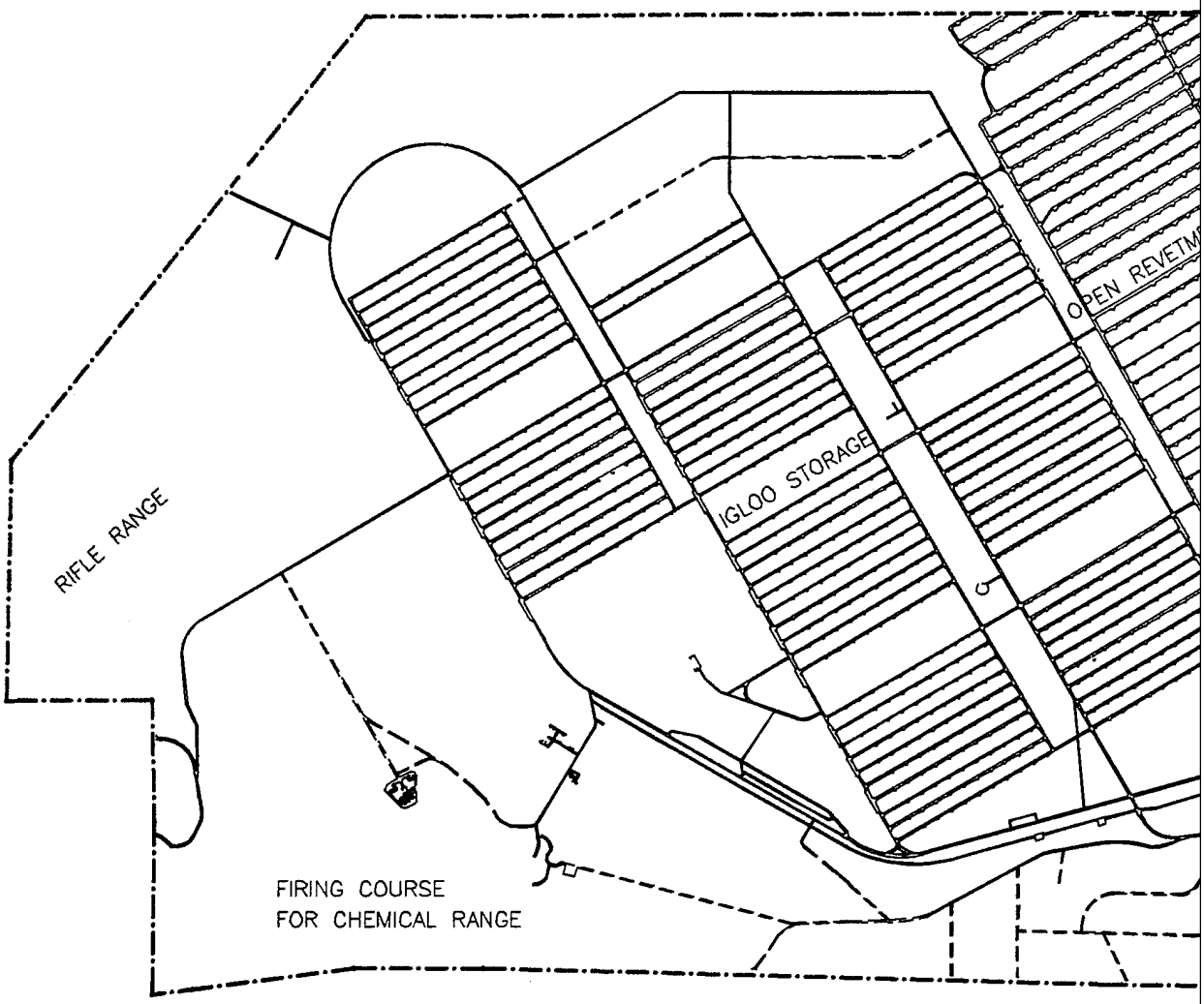
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FOR CHEMICAL RANGE

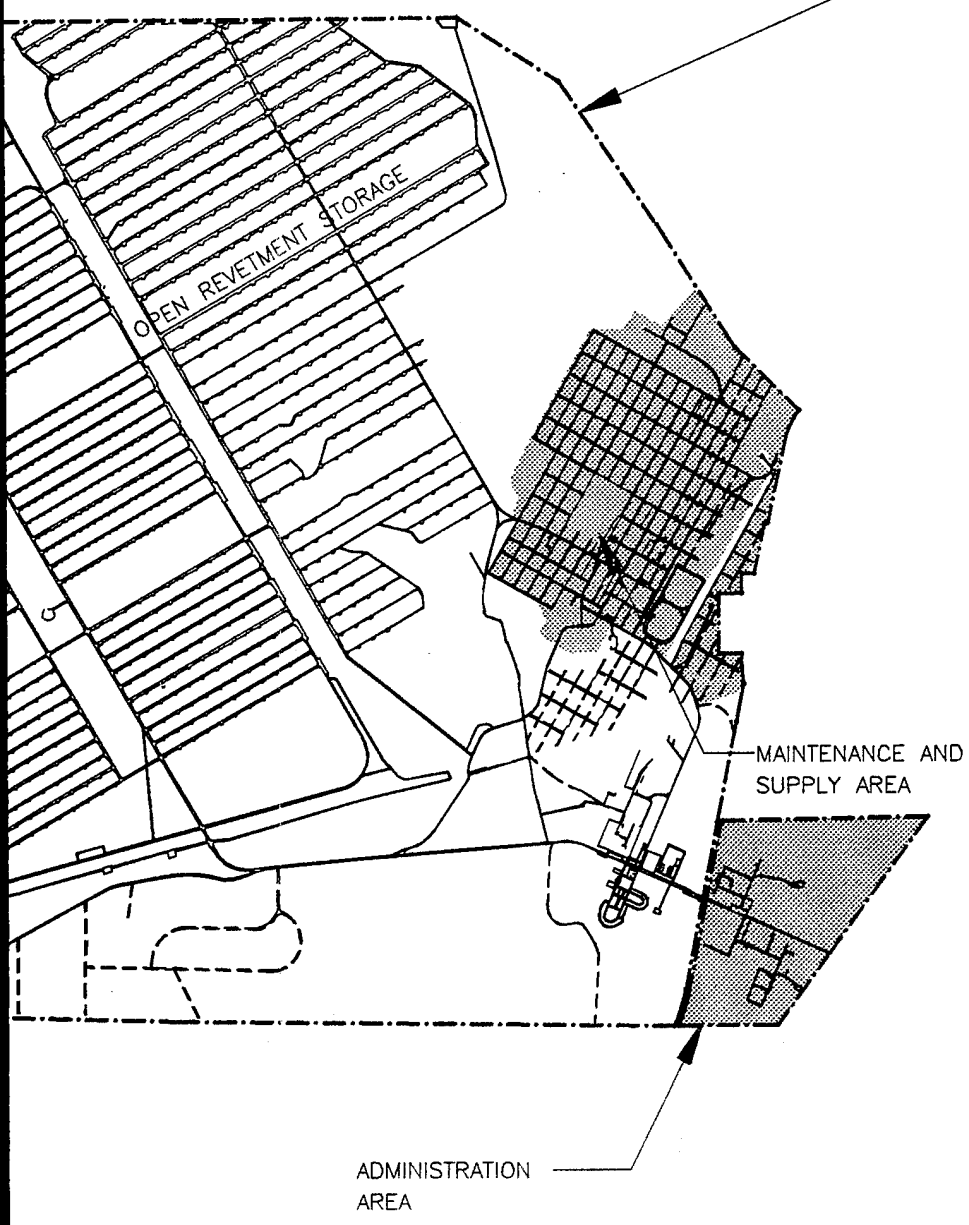

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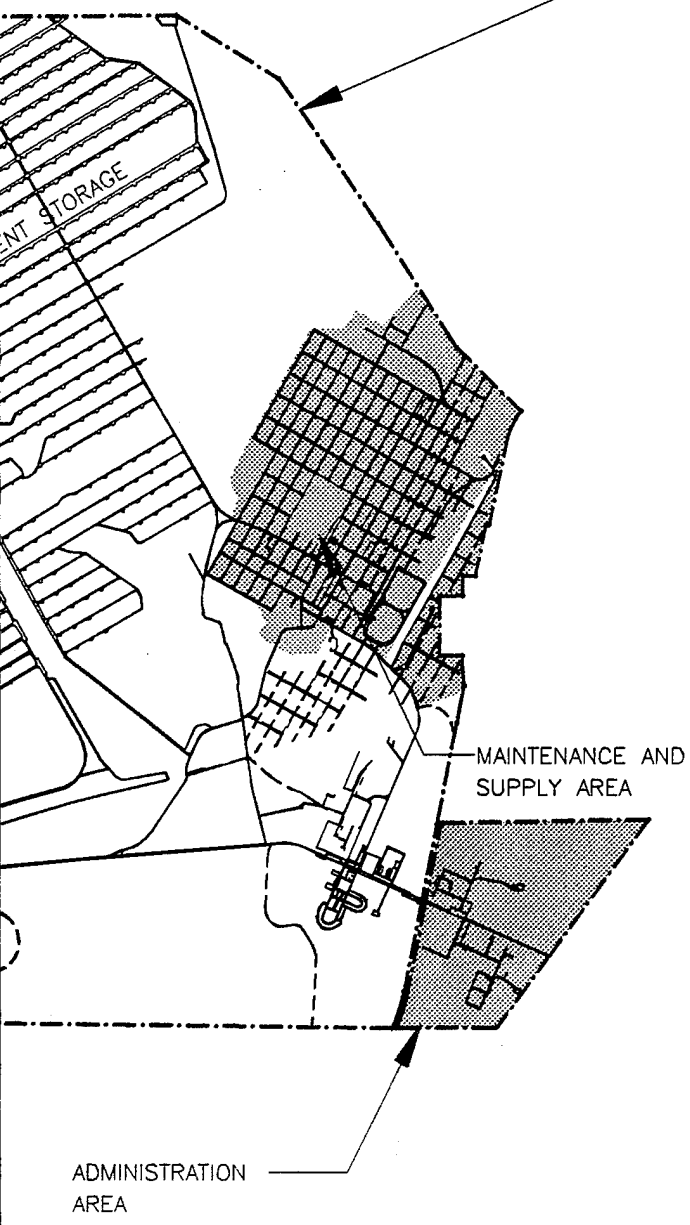
Figure 2-2

BRAC Parcel

Prepared by: AGEISS Environmental,



LEGEND

BRAC Parcel Area

Installation Boundary

Roads and Parking

Trail and Earth Road

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SOURCE: Office of the Facilities Engineer, 1991 (modified)
Tooele Army Depot
Tooele, Utah

Prepared for:

U.S. Army Environmental Center

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Figure 2-2

BRAC Parcel

Prepared by: AGEISS Environmental, Inc.

FINAL

Table 2-1. Buildings and Facilities within the BRAC Parcel.

Bldg. No.	Use/Name	Year Built
100	Inspection Center	1992
S-101	Reserve Component	1945
S-103	Post Chapel	1943
S-104	Pub and MARTEC Cleaning Service Headquarters	1943
S-108	Dining Hall	1981
109	Administration and Support Building	1985
S-110	Administration Building	1943
S-111	Barracks	1943
112	Officer's Quarters	1985
S-113	Environmental Management Office	1943
114	Barracks	1985
S-115	Industrial Risk Management Directorate Office	1943
116	Barracks	1985
S-117	Administration Building: Safety Office	1943
S-118	Barracks	1943
S-119	Barracks	1943
S-120	Barracks	1943
S-121	Barracks	1943
S-122	Barracks	1943
S-123	Administration and Support Building	1943
S-124	Barracks	1943
S-125	Administration and Support Building	1943
S-126	Barracks	1943
S-139	Officer's Quarters	1985
S-141	Barracks	1943
S-143	Barracks	1943
S-145	Barracks	1943
S-147	Administration and Support Building	1943
S-149	Administration and Support Building	1943
S-150	Barracks	1943
S-151	Barracks	1943
S-152	Barracks	1943
S-153	Post Exchange	1945

NOTE: An acronym list is provided on the last page of this table.

Bldg. No.	Use/Name	Year Built
S-155	Bowling Center	1945
S-159	Trap and Skeet Range Shed	1957
160	Skeet Release Structure	1981
161	Trap and Skeet Range Shed	1981
162	Trap Release Structure	1981
163	Trap and Skeet Range Shed	1981
250	Water Tank	NA
253	Water Tank	NA
576	Hazardous Materials Storage Warehouse	1962
581	Water Tank	NA
582	Fuel Oil Tank	NA
586	Topographic Test Range Station	1970
587	Vehicle Remanufacturing Shop	1971
588	Office at 90-Day Yard	1987
T-589	Hazardous Materials Office	1968
S-590	Technical Procedures Development Shop	1943
S-592	NA	1943
S-593	Concrete arch over railroad tracks	NA
S-595	Administration	1944
596	Power Substation	NA
597	Compressor Room	1963
600	General Purpose Maintenance Shed	1943
600-A	Vacant/Parts Storage Facility	NA
600-B	Storage Warehouse	NA
600-C	Solvent Recovery Facility	1988
S-601	Restricted Access/Maintenance Facility	1943
602	Maintenance Facility/vehicle parts lubrication and preservation	1943
603	Tire Repair and Recapping Shop	1943
S-604	Power Train Rebuild Shop	1943
S-605	Silk Screen Shop; Dark Room; Print Shop	1943
S-606	Boiler Plant	1943
607	Maintenance and Repair Shop	1943
S-608	Machining and Welding Shop	1943

NOTE: An acronym list is provided on the last page of this table.

Bldg. No.	Use/Name	Year Built
S-609	Maintenance Facility: steam cleaning; metal stripping; radiator repair shop	1943
S-610	Boiler Plant	1943
S-610A	Wash Facility	1992
S-611	Vacant Maintenance Facility: vapor degreasing, cleaning, and lubricating parts; paint shop; small arms firing range	1943
S-611A	Pump Station	1977
612	Paint Shop	1943
613	Sheet Metal Shop	1943
613A	General Storage Shed	1942
S-614	Maintenance Facility: Etching and rinsing plates; Administration	1943
615	Maintenance Facility: Metal stripping, cleaning, anodizing and electroplating; vapor-degreasing; spray painting	1956
615C	Storage Shed	NA
615D	Paint Storage	NA
615-PI	NA	1943
S-616	Union Offices	1943
S-617	Electrical Shop; Millwrights Shop	1943
S-618	Lunch Room	1943
618-A	Concrete Slab	NA
619	Vehicle Manufacturing Facility	1943
S-620	Battery Repair and Charging Shop	1943
S-621	Carpentry Shop	1943
S-621R	Change House	NA
622	Credit Union	1977
623	Chromic Acid/Alodine Drying Beds	NA
624	Maintenance Shed	1966
626	Combat Vehicle Test Track	NA
626F	Boat Testing Pool	NA
627	Change House; Lunch Room	1973
628	Cable House	1943
S-629	Gas Station Complex	1943
S-630	Shipping & Receiving	1943
S-631	Shipping & Receiving	1943

NOTE: An acronym list is provided on the last page of this table.

Table 2-1. Buildings and Facilities within the BRAC Parcel.

Bldg. No.	Use/Name	Year Built
S-631R	Change House	NA
632	Structure Associated with Recycled Water Tank	1992
633	Concrete Vehicle Ramp	NA
637-A	NA	1943
637-B	NA	NA
637-C	NA	NA
S-637	Engine Rebuild Facility	1943
S-638	Storage Shed	1962
S-639	Body Shop; Steam Cleaning	1943
S-640	General Purpose Warehouse	1943
S-641	General Purpose Warehouse	1943
S-641R	Change House	NA
S-647	Vehicle Storage; Vacant Paint Shop	1943
S-647R	Change House	NA
S-649	General Purpose Warehouse	1943
S-650	General Purpose Warehouse	1943
S-651	General Purpose Warehouse	1943
S-651R	Change House	NA
653	Concrete Vehicle Ramp	NA
655	Transportation Offices; Lunch Room	1968
656	Standby Generator	1976
S-657	General Purpose Warehouse; Vehicle Storage Facility	1943
S-657R	Change House	NA
S-659	General Purpose Warehouse	1943
S-660	General Purpose Warehouse	1943
S-661	General Purpose Warehouse	1943
S-661R	Change House	NA
S-667	General Purpose Warehouse; Vehicle Storage Facility	1943
S-667R	Change House	NA
S-669	General Purpose Warehouse; Vehicle Storage Facility	1943
S-670	General Purpose Warehouse	1943
S-671	Administration	1943
S-672	Administration; Lunch Room	1957

NOTE: An acronym list is provided on the last page of this table.

Bldg. No.	Use/Name	Year Built
673	Concrete Vehicle Ramp	NA
S-674	NA	NA
S-675	General Storehouse	1948
S-676	Covered Walkway	NA
S-677	General Purpose Warehouse	1943
S-677R	Change House	NA
S-679	General Purpose Warehouse	1943
S-687	General Purpose Warehouse; Vehicle Storage Facility	1943
S-687R	Change House	NA
S-689	General Purpose Warehouse; Vehicle Storage Facility	1943
690	Storage Shed	NA
691	Vehicle Rebuild	1983
693	Concrete Vehicle Ramp	NA
S-694	Change House	1977
S-697	General Purpose Warehouse; Vehicle Storage Facility	1943
S-699	General Purpose Warehouse; Vehicle Storage Facility	1943
710	Wastewater Treatment Plant: Inflow Pumphouse	1987
711	Wastewater Treatment Plant: Emergency Power Generation Station	1987
712	Wastewater Treatment Plant: Treated Water Outflow Pumphouse	1987
713	Wastewater Treatment Plant: Contractor Structure Housing Air Strippers and Other Equipment (not owned by the government)	1987
714	Wastewater Treatment Plant: Hazardous Materials Storage (not owned by the government)	1987
715	Wastewater Treatment Plant: 90-Day Storage Yard	1987
716	Wastewater Treatment Plant: Process/Treatment Equipment	1993
S-735	Flammable Materials Storehouse	1944
S-752	Vacant/Instrument Building	1964
S-753	Vacant Office/Instrument Building	1944
804-928	125 Round Tanks - Vehicle Storage	1947
1000	Police Station; Aces Facility; Administration; Print Plant; Photo Lab	1943
1001	Administration	1943
1002	Gymnasium	1943
1004	Arts & Crafts Center	1943

NOTE: An acronym list is provided on the last page of this table.

Bldg. No.	Use/Name	Year Built
1005	Auditorium	1943
1006	Pump Station	1943
1008	Recreation Building	1978
1009	Oquirrh Travel Camp	NA
1010	Credit Union	1972
1011	Recreation Building	1981
1020	Swimming Pool	NA
1110	Recreation/Stables	1979
1111	Recreation/Stables	1968
1112	Recreation/Stables	NA
NA	Skeet and Trap Range	NA
NA	Concrete Slab	NA
NA	Tooele Valley High School	NA
NA	Utah National Guard	NA
2000	DRMO: Storage Shed	1976
2001	DRMO: Storage Shed	1976
2002	DRMO: Storage Shed	1976
2003	DRMO: Hazardous Materials Storage	1976
2004	DRMO: Saleable Items Warehouse	1976
2005	DRMO: Saleable Items Warehouse	1976
2006	DRMO: Salvage & Surplus Property	1976
2007	DRMO: Salvage & Surplus Property	1976
2008	DRMO: Saleable Items Warehouse	1958
S-2009	DRMO: Property Management Branch Office	1958
S-2010	Administration	1986
2011	DRMO: Paperwork Archiving	1946
2012	DRMO: Auction House	1943
2013	DRMO: Inert Ordnance Storage	1962
2014	Open Storage	NA
2015	Open Storage	NA
2016	Scale House	1981
2020	Reutilization Office	1989
S-2025	90-Day Hazardous Waste Storage Building	1943

NOTE: An acronym list is provided on the last page of this table.

Bldg. No.	Use/Name	Year Built
NA	Consolidated Maintenance Facility	1992
NA	25 Ton Bridge Crane	NA
OSL 509 (1-6)	Open Storage	NA
OSL 605 (1-6)	Open Storage	NA
OSL 615 (1-3, 5, 6)	Open Storage	NA
OSL 623	Open Storage	NA
OSL 625 (1-6)	Open Storage	NA
OSL 633	Open Storage	NA
OSL 635 (4-6)	Open Storage	NA
OSL 643	Open Storage	NA
OSL 645 (4-6)	Open Storage	NA
OSL 653	Open Storage	NA
OSL 655 (1-8)	Open Storage/Recycling Operations	NA
OSL 663	Open Storage	NA
OSL 665 (1-8)	Open Storage	NA
OSL 670 (4-7)	Open Storage	NA
OSL 673	Open Storage	NA
OSL 675 (1-8)	Open Storage	NA
OSL 680	Open Storage	NA
OSL 681	Open Storage	NA
OSL 683	Open Storage	NA
OSL 685 (1-8)	Open Storage	NA
OSL 690	Open Storage	NA
OSL 693	Open Storage	NA
OSL 695 (1-8)	Open Storage	NA
OSL 703	Open Storage	NA
OSL 704	Open Storage	NA
OSL 705	Open Storage	NA
OSL 713	Open Storage	NA
OSL 714	Open Storage	NA
OSL 715	Open Storage	NA
OSL 801	Open Storage	NA
OSL 802	Open Storage	NA

NOTE: An acronym list is provided on the last page of this table.

Bldg. No.	Use/Name	Year Built
OSL 803	Open Storage	NA
OSL 804	Open Storage	NA
OSL 805	Open Storage	NA
OSL 806	Open Storage	NA
OSL 807	Open Storage	NA
OSL 813	Open Storage	NA
OSL 814	Open Storage	NA
OSL 815	Open Storage	NA
OSL 816	Open Storage	NA
OSL 817	Open Storage	NA
OSL 823	Open Storage	NA
OSL 824	Open Storage	NA
OSL 830	Open Storage	NA
OSL 831	Open Storage	NA
OSL 833	Open Storage	NA
OSL 834	Open Storage	NA
OSL 840	Open Storage	NA
OSL 841	Open Storage	NA
OSL 843	Open Storage	NA
OSL 850	Open Storage	NA
OSL 851	Open Storage	NA
OSL 853	Open Storage	NA
OSL 854	Open Storage	NA
OSL 860	Open Storage	NA
OSL 861	Open Storage	NA
OSL 862	Open Storage	NA
OSL 863	Open Storage	NA
OSL 870	Open Storage	NA
OSL 871	Open Storage	NA
OSL 872	Open Storage	NA
OSL 873	Open Storage	NA

Bldg. Building
BRAC Base Realignment and Closure
DRMO Defense Reutilization and Marketing Office
NA Not Available
No. Number
OSL Open Storage Lot

2.3.1 Maintenance and Supply Area

The BRAC property that lies within the Maintenance and Supply Area contains the following facilities: open storage lots (OSLs), storage warehouses, the Consolidated Maintenance Facility (CMF), various maintenance facilities, the Solvent Recovery Facility, the 90-Day Drum Storage Area, other drum storage areas, the DRMO, the Industrial Wastewater Treatment Plant (IWTP), and the Combat Vehicle Test Facility.

2.3.1.1 Open Storage Lots

The OSLs in the BRAC parcel are generally located to the west of the supply warehouses, with some located in the center of the warehouses and to the east of the facility, between the DRMO and the installation's boundary. The majority of the OSLs, excluding those along the eastern boundary of the facility, are used for storing various types of material and military equipment. Material and equipment are stored, generally on a temporary basis, for rehabilitation or future permanent storage. A grid road network serves these areas, which are predominantly gravel-covered earth surfaces. During the site visits, these OSLs were inspected via a windshield survey. The lots appeared clean and well-maintained. Review of historical aerial photographs indicated some ground stains and ground disturbances in the OSLs (ERI, 1993).

The OSLs to the east, between the DRMO and the Combat Vehicle Test Facility and the installation boundary were also inspected during the site visits via a windshield survey. These OSLs did not contain vehicles or equipment of any kind, nor was there a well-defined grid road network. Rather, these areas consisted of open fields with no indications of vegetation stress or other such indicators of disturbance. These areas do not appear to have been used for open storage recently, if at all, based on conditions observed during the windshield survey. Review of aerial photographs dating back to 1939 also did not reveal any areas of environmental concern (ERI, 1993).

The OSLs to the west and southwest, between the CMF and the western BRAC boundary were first inspected during the October 1993 site visits. These areas were inspected again during the August 24, 1994 visit as a result of the BRAC parcel expansion which included additional acreage to the west and southwest of the CMF. During this additional site visit, no evidence of ground-staining or vegetation stress was noted. Review of aerial photographs and information contained in the Phase II study of known-release Solid Waste Management Units (SWMUs) indicated historical disturbances such as conveyance ditches and lagoons. Based on this new information, many of these OSLs and former drainage ditches and lagoons to the west and southwest are included as AREE 18. (REI, 1994b).

2.3.1.2 Warehouses

The warehouses, which were mostly constructed in the 1940s, are used for long-term storage of specialized vehicles and other military equipment. There are 125 round "tank" warehouses at the north end of the area used for long-term storage of specialized vehicles. They have controlled humidity and a series of metal tanks with sealed doors which allow a controlled atmosphere for long-term storage. The supply area contains 26 large general-purpose warehouses for additional storage of equipment and supplies of TEAD-N. The area is served by both truck and rail. During the site visit, all 26 warehouses and two of the round "tank" warehouses were inspected. With the exception of Buildings 594, 659, and 691, all of the

warehouses appeared to be clean, well maintained, with no current or historical evidence of storage of hazardous substances, petroleum, or petroleum derivatives. Additionally, personnel interviewed and review of aerial photographs support this conclusion. Buildings 594 and 659 are the two warehouses that were and are currently used for storage of hazardous substances, petroleum, or petroleum derivatives. Building 691, which contains an oil/water separator, is the site of steam cleaning, some vehicle maintenance, and other limited industrial activities.

2.3.1.3 Maintenance Buildings and Facilities

The CMF is located adjacent to the western side of the warehouses. This facility was completed in 1992 to consolidate and upgrade vehicle remanufacturing operations. Activities performed on military vehicles at the CMF include: receiving; unpacking; pre-cleaning; disassembly; cleaning; sand blasting; testing; component and electrical rehabilitation; machining; power train, engine and power generation assembly; painting; preservation and packing; and shipping. The CMF was designed to update and streamline these processes; minimize the use of hazardous materials and the generation of hazardous wastes; and reduce the potential for a release of contamination. The CMF was designed to operate in accordance with all applicable Federal, State, and local environmental regulations. An on-site wastewater treatment plant is present at the CMF to treat effluent generated during vehicle remanufacturing and related operations. Treated water from the on-site wastewater treatment plant is piped to the recycled water tank (632T) where it is reused by the Maintenance and Supply Area. Conditions observed during the site visits indicate that the CMF is operating according to the design objectives. Extremely clean housekeeping practices were also observed through the CMF during the site visits. Based on these observations combined with the environmental emphasis incorporated into the CMF design and operation, contamination from this facility is not suspected.

The maintenance buildings, mostly constructed in the 1940s, are located at the south end of the Maintenance and Supply Area. These facilities accommodate sand blast areas, paint dunnage, equipment maintenance, repair, handling, and inspection. Altogether, there are 877,776 square feet of building space within this area, which is served by both truck and rail (EAESTI, 1988). The primary activities which occur in the maintenance buildings are related to major (military vehicles, etc.) and secondary (generators, compressors, etc.) item remanufacture. Some current deficiencies and many past practices in the maintenance structures have resulted in potential residual building contamination which is discussed in Section 3.20.

Historical information, on-site inspections, and TEAD-N personnel interviews performed during the ENPA investigation indicated that many of the maintenance structures have housed a variety of activities throughout their operating history. For example, Building 618, presently the lunch room, was formerly a battery shop and painting operations. Building 616, which currently houses union offices, was at one time a fire station. Conditions as they were observed during the site visits are therefore considered to represent only a single point in time. Historical research and interviews with long-employed TEAD-N personnel were conducted during the ENPA investigation to provide information regarding past practices so that a more complete assessment of the varied history of the maintenance buildings could be evaluated with respect to AREE identification. A list of personnel interviewed during the ENPA investigation is included as Appendix B of this report.

The Solvent Recovery Facility is located at the southwest corner of the Maintenance and Supply Area in Building 600C. This facility was constructed in 1988, and has been used to recycle Stoddard solvent, trichloroethylene (TCE), paint thinner, antifreeze, and used oil filters throughout its operating history. The Solvent Recovery Facility was observed to be in excellent condition during the site visits. This facility has been identified as a no further action SWMU and is not identified as an AREE.

The 90-Day Drum Storage Area (SWMU 28) is a 3.4-acre fenced lot located near the southern end of the Maintenance and Supply Area. Buildings 588, 596, and 656 are located within the fenced area. Currently, drummed wastes including gasoline, phosphonic acid, sodium hydroxide, paint wastes, thinners, solvents, paint filters, blast grit, used oil, and antifreeze, are stored above ground on pallets in this area. Visual inspection and review of historical aerial photographs have indicated that no ground staining or standing liquid is evident at this site (MW, 1993). However, Phase I RCRA Facility Investigation (RFI) sampling indicates that activities at this SWMU have released contaminants to the environment. For this reason, the 90-Day Drum Storage Area has been included as AREE 16 in this report and is discussed in detail under Section 3.16.

The Drum Storage Areas (SWMU 29) consists of two areas located near the southern end of the Maintenance and Supply Area. The two areas are separated by the Maintenance and Supply Road. The southern area (also known as the old lumber yard) is a fenced, 25-acre expanse of gravel and broken asphalt surface with a single warehouse (Building 576) and one smaller associated office facility (Building 589). Historical aerial photographs show that the southern part of SWMU 29 has been used for the storage of drums, as well as cylinders, tanker trucks, and lumber (EPA, 1982). The northern part of SWMU 29 is a triangular-shaped, sparsely-vegetated, open area of approximately 5 acres. A 1953 aerial photograph shows drums stored in this area, while aerial photographs taken in 1959 and 1966 indicate that the drums were removed and that the area was unoccupied. In 1981, an aerial photograph shows debilitated vehicles stored in the western part of the northern area (EPA, 1982). SWMU 29 has been identified as AREE 17 in this report, because environmental contamination is known to exist at this site. An extensive discussion of SWMU 29 is included in Section 3.17.

The DRMO, located adjacent to the eastern side of the warehouses, consists of an open storage yard and several steel buildings. This area is used for temporary storage of surplus material (no longer in use at the installation), prior to sale. The area is provided with rail and truck access. Environmental contamination is known to exist at the DRMO, and this area has been identified as AREE 8 and is discussed in detail under Section 3.8.

The IWTP is located within the southwest corner of the BRAC parcel. According to Mr. Pat Sullivan, the Chemical Engineer in charge of the IWTP who was the Facilities Office escort during the on-site inspection, the design capacity of the treatment facility is 160,000 gallons per day (gpd). Several structures and holding tanks are present at the IWTP complex. The majority of this facility was built in 1987; however, an additional structure, Building 716, was built in 1993. The facility treats an average of 116,000 gpd. Approximately 103,000 gpd of treated wastewater from the IWTP is piped to the recycled water storage tank (632T) located in the Maintenance and Supply Area. This water is then reused for maintenance area operations. The remaining water is released to the City of Tooele publicly-owned treatment works. The IWTP has been identified as AREE 9, and it is discussed in detail in Section 3.9.

The Combat Vehicle Test Facility is located east of the Maintenance and Supply Area and south of DRMO. This facility is used to determine specifics regarding the status of vehicles prior to repair, and to test the performance of vehicles following remanufacture. This facility includes an asphalt test track with obstacles, an inclined brake testing area, and a test pool for boats and amphibious vehicles. The Combat Vehicle Test Facility has been identified on aerial photographs as a "stained area" (ERI, 1993). However, visual inspection of the site during the ENPA site visits indicated that the dark area on the photographs interpreted as a stain may have been asphalt, since the track is currently paved. A maintenance shed, Building 624, is also present at the facility. Vehicles were observed in the shed during the site inspection of the vehicle test facility, however, only light maintenance activities appeared to be conducted in this structure. Additionally, a recycled industrial water tank (632T) and an associated structure (Building 632) are also located near the center of the test track at the facility. Treated water from the IWTP is pumped uphill to the recycled water tank for storage prior to reuse in the Maintenance and Supply Area. No evidence of leaks, overfills, or other releases of the recycled water were observed during the site inspection of the test facility. Significant quantities of hazardous substances and wastes, including waste oil, were not observed during the site inspection at the Combat Vehicle Test Facility, nor were indications of poor housekeeping, spills, or other practices which could potentially produce a hazardous release. Thus, this facility was not designated as an AREE.

2.3.2 Administrative Area

The BRAC property that lies within the Administrative Area currently contains the following facilities: several administration buildings; old barracks; police station; print plant; photographic laboratory; gymnasium; swimming pool; crafts building; several recreation buildings; the Utah Army National Guard; the Army Travel Camp; a trap and skeet range; vertical water tanks; and horse stables. Aerial photograph review indicates that the part of the Administration Area south of the Main Entrance Road was also previously used for residential purposes. The residential area has since been dismantled. Other features noted in the aerial photographic site analyses indicated disturbed ground, trenches with debris, dark-toned areas with unidentified material, a probable drain field, a liquid impoundment, and mounded material at various locations in the Administrative Area. During the site visits the facilities listed above were inspected. Visual inspection of the facilities and surrounding land indicated no current or historical evidence of contaminant releases to the environment, with the exception of USTs and above ground storage tanks (ASTs) used for heating oil storage at numerous locations. These USTs and ASTs are discussed further as AREEs 12 and 13 in Sections 3.12 and 3.13, respectively. Additionally, the debris trenches and probable drain field are discussed further as AREE 14 in Section 3.14. Ground truthing by installation and USAEC personnel indicated no evidence of the impoundment (Oliver, 1994).

2.4 ENVIRONMENTAL SETTING

Descriptions of TEAD-N's environmental setting include demographics and land use, climate, physiography, surface water, soils, geology and hydrogeology, flora and fauna, and archeological resources. This information was taken largely from the Preliminary Assessment/ Site Investigation Final Report (EAESTI, 1988).

2.4.1 Demographics and Land Use

TEAD-N is located in Tooele County, which is one of five counties comprising the Wasatch Front Multi-County Planning District. Tooele County, west of Salt Lake City, has exhibited a slower growth rate than most other Wasatch Front Counties. The lack of significant employment generators and the arid nature of this county have prevented large population concentrations. In addition, the heavy federal ownership of land in this part of the state reduces the acreage available for private development.

Population growth in Tooele County has been subject to major fluctuations, directly reflecting mining and military activities. From 1950 to 1970, the total county population increased 47 percent, from 14,636 to 21,545. Time periods of the highest population increases (1950 through 1952; 1961 through 1963; and 1965 through 1968) were related directly to government military employment connected with war activity in Korea and Vietnam. From 1970 to 1990, the total county population increased only 23 percent from 21,545 to 26,601 (UDH, 1993).

Within Tooele County, growth is concentrated in areas along Interstate 80 and in proximity to TEAD-N. With the exception of the cities of Tooele (population 13,887), Grantsville (population 4,500), and Stockton (population 426), the area surrounding TEAD-N is largely undeveloped, with predominately grazing and limited cultivation occurring (UDH, 1993). The town of Grantsville is located approximately 2 miles north of the northwest corner of TEAD-N; the City of Tooele lies adjacent to the northeast corner; and Stockton is located approximately 2 miles to the south along State Highway 36.

TEAD-N is bounded on the north by Farm Road 112; north of the road is the Tooele County Landfill, open land used for agricultural purposes, and a salvage company. To the east of the installation, there is a right-of-way for the Union Pacific Railroad and another salvage yard. Additionally, the Tooele City Commercial Park lies to the east. The park contains the Tooele Municipal Airport, some light manufacturing companies, and a construction company. There is also some residential development that abuts the northeastern boundary of TEAD-N. The installation is bounded on the southeast by State Highway 36. South and west of TEAD-N, properties are used primarily for rangeland grazing.

2.4.2 Climate

TEAD-N has hot, dry summers, cool springs and falls, moderately cold winters, and a general year-round lack of precipitation. Precipitation that does occur usually does so in the form of snow between early fall and late spring. Grantsville receives an average of 11 inches of precipitation, and Tooele receives 16.5 inches of annual precipitation (EAESTI, 1988). The average annual temperature ranges from a high of 80 degrees Fahrenheit (°F) in July to a low of 30 °F in January (EAESTI, 1988).

Low humidity is a characteristic of the valley climate and visibility is generally good. During winter months, however, storm fronts are usually followed by high pressure fronts occasionally lasting for several weeks. These fronts trap the cold air in the valley, creating temperature inversions which can create significant fog and smog problems.

The Salt Lake Basin forms a large, generally enclosed air basin of 7,500 square miles. The Great Salt Lake is a shallow body of water covering approximately 2,000 square miles, which

is large enough to drive a classical sea-breeze circulation. The sea-breeze circulation moving through the air basin is called the local wind circulation. The local wind circulation is caused by the uneven heating and cooling of the land and water surface. This diurnal wind tends to blow downslope towards the lake at night, when the lake is warmer than the land. During the daytime, when the land is warmer than the lake, the winds flow upslope into the valleys and mountains. This tends to cause a mixing of air in the center of the lake along a north-south axis during the day. The local wind circulation is the predominant wind factor in the basin and winds rarely exceed 10 miles per hour, although passing storms cause higher wind velocities. The local wind circulation produces a constant interchange of air in the basin, but only limited exchange with air external to the basin.

2.4.3 Physiography

The topography of TEAD-N and surrounding area is illustrated in Figure 2-1. TEAD-N is located in Tooele Valley, a northward plunging structural basin flanked by coalescing alluvial fans that slope generally to the north at about 40 feet per mile and have been greatly modified by the shoreline erosion of Lake Bonneville (Everitt and Kaliser, 1980). The valley is bordered on the north by the Great Salt Lake at an elevation of 4,200 feet. The valley is bordered by the Oquirrh Mountains to the east and the Stansbury Mountains to the west. Maximum elevations of these mountains are 10,350 and 11,031 feet, respectively. Tooele Valley is separated from Rush Valley to the south by South Mountain, a low transverse divide, and by the Stockton Bar, which was deposited by Lake Bonneville during the Pleistocene Epoch.

2.4.4 Surface Water

There are five perennial streams in Tooele Valley, with a combined water yield of about 13,930 acre-feet per year (Razem and Steiger, 1981). These streams originate in the mountains and disappear in the valley floor. Two of these originate in the central Oquirrh Mountains and enter the valley near Tooele, and three originate in the central Stansbury Mountains on the west side of the valley. South Willow Creek is on the northwestern boundary and is the largest of the streams in the Tooele Valley, with an annual flow of 4,830 acre-feet. Box Elder Wash has an annual flow of 900 acre-feet and enters the TEAD-N as an intermittent stream in the southwest, crossing from south to north. There are also four large springs in the central Tooele Valley several miles north and northeast of the facility boundary. Their combined flow is about 17,000 acre-feet. A few minor seeps also occur in the basin, but none within the TEAD-N. The streambeds located within the Depot boundaries carry intermittent flow from perennial streams originating in the surrounding mountains.

No perennial streams exist on the North Area of TEAD. However, perennial reaches of streams exist southeast and southwest of the North Area in South Willow, Box Elder, and Settlement canyons. The perennial flow of these streams infiltrates the alluvial fan materials before reaching the valley floor which lies to the north of TEAD (EAESTI, 1988).

Storm runoff drainage systems have been constructed in several areas of TEAD-N. The drainage from these systems ends in spreading areas or natural drainage channels on base property. The stormwater drainage in the Maintenance and Supply Area of the BRAC parcel is accomplished by an interconnected system of open drainages, drainage manholes, catch basins, and storm sewer mains. Stormwater drainage in the Administration Area of the BRAC parcel occurs via a similar system. Storm sewer mains in both the Maintenance and Supply Area and the Administration Area are constructed of predominantly vitrified clay, concrete, and

steel. Stormwater drainage systems in both areas of the BRAC parcel direct runoff in a general northwest direction.

2.4.5 Soils

Soil characteristics within Tooele Valley largely result from the past inundation of the valley bottoms by Pleistocene lakes. Increasing amounts of salt were deposited in the soils of the Great Basin valleys by drying lakes in the Holocene Era. Today, the valley bottoms tend to be saline, the middle slopes slightly saline, and the upper parts of the valleys nonsaline.

TEAD-N has mostly mature desert soils, aridosols, which are arable and non-saline. However, the soils are generally low in fertility and are farmed only under irrigation. Hydraulic conductivities of the soil in the TEAD-N area range from $1x10^{-2}$ to $1x10^{-4}$ centimeters per second (JMM, 1992).

Eight primary soil series have been identified on TEAD-N by the Soil Conservation Service. Three of these are found on the BRAC parcel. The Abela very gravelly loam occurs over the Maintenance and Supply Area. This soil is developed in alluvium derived primarily from limestone and quartzite and occurs on slopes of 1 to 8 percent. The Doyce loam and Lakewin series occurs over the Administration Area (JMM, 1992).

2.4.6 Geology and Hydrogeology

TEAD-N is located in the Great Salt Lake Basin, a large interior drainage basin within the Basin and Range Geologic Province, approximately 35 miles west of the Wasatch Fold and Fault Belt of the Overthrust Geologic Province. The Basin and Range Province is characterized by large fault blocks that trend approximately north to south. Movement along these fault blocks caused the formation of large interior drainage basins with extensive alluvial and lacustrine deposits and exposed rocks ranging in age from Pre-Cambrian and Cambrian (approximately 600 million years ago) to Tertiary and Quaternary. Interspersed within these rocks are igneous (volcanic) rocks of geologically recent age (Tertiary) intruded into the fault block mountains simultaneously with fault displacement (Moore and Sorensen, 1979). Alluvial and lacustrine sediments lie in the valleys between these fault block mountains and were deposited as pediment slopes from mountain drainage courses and as lake bed deposits in the large inter-mountain Lake Bonneville of the late Tertiary Period. Regional Basin and Range tectonism has resulted in the formation of a variety of economic mineral deposits which are extensively mined in the general area of TEAD.

The valley fill deposits consist of an older sequence of Tertiary age and a younger sequence of Quaternary age. The older sequence comprises the Salt Lake Group and consists of moderately consolidated sand, gravels, silts, and clays with an abundance of volcanic ash (Everitt and Kaliser, 1980). The group is characterized by considerable deformation by tectonic processes. The younger sequence of the valley fill unconformably overlies the Salt Lake Group and consists of relatively unconfined deposits of mostly unconsolidated sand, gravel, silt, and clay of Quaternary age (Everitt and Kaliser, 1980). This sequence includes pre-Lake Bonneville alluvium of Pleistocene Age, Lake Bonneville deposits of Pleistocene Age, and deposits of recent age which include alluvium, lake beds, and dune sands.

The surficial geology of TEAD-N is generally composed of lacustrine, colluvial, and alluvial sediments. The unconsolidated alluvium is typical of alluvial fan deposits consisting of poorly

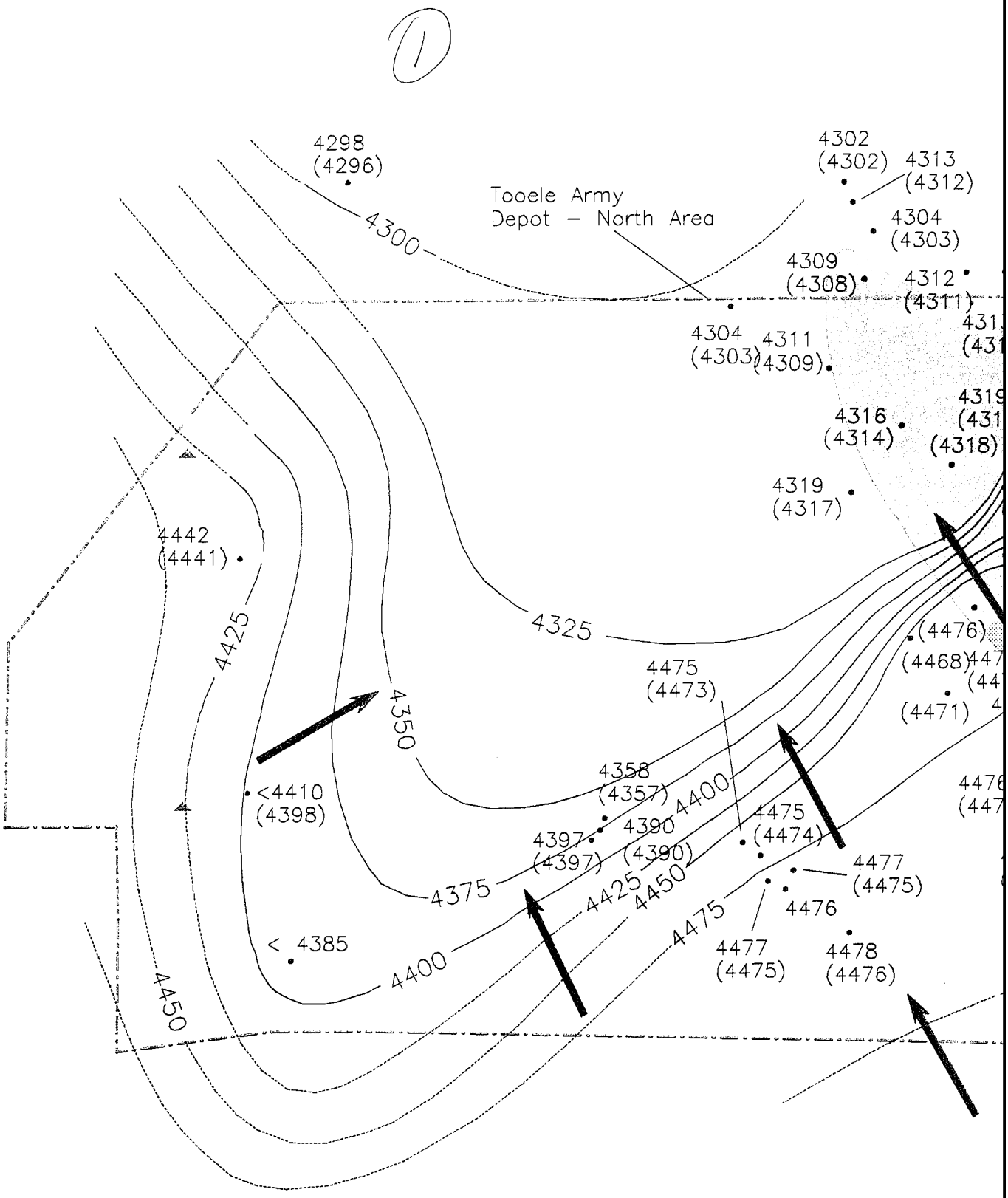
sorted, clayey, silty sand, gravel and cobbles. The sand grains, gravel, and cobbles are composed of limestone, sandstone, and quartzite eroded primarily from the mountains surrounding TEAD-N. Little bedrock is exposed at TEAD-N. The most significant bedrock features are a series of limestone and quartzite outcrops located in the northeastern portion of the depot. These rocks are similar to the late Paleozoic rocks that comprise the mountains on the east, south, and west of TEAD-N.

Groundwater flow at TEAD-N is part of a larger regional system that includes Rush and Tooele Valleys. Within this regional groundwater flow system water migrates from areas of recharge to areas of discharge. The recharge areas generally lie along the edges of valleys and receive recharge from mountain streams and snowmelt. Discharge occurs in one of two ways, either by interconnections from adjoining flow systems or through evapotranspiration and surface water bodies. Groundwater in Tooele Valley is found in the alluvial valley fill deposits and to a lesser extent in the underlying bedrock.

Groundwater within TEAD-N occurs under confined, unconfined, perched, and mounded conditions. The potable water at TEAD-N is derived from the bedrock and alluvium aquifers. Groundwater flowing through the bedrock does so through fractured sandstone, quartzite, limestone, and dolomite. The alluvial groundwater flows through saturated fan deposits. These two groundwater sources consist of a single interconnected aquifer system. The general groundwater flow direction at TEAD-N is from southeast to northwest, with groundwater flowing from the east and south toward the center of the valley and finally north toward the Great Salt Lake. The flow direction is altered to some extent in the Industrial Waste Lagoon (IWL) area which is located outside of the BRAC parcel, where the alluvial aquifer encounters a fault-block bedrock ridge. The IWL has been designated as SWMU 2. A groundwater contour map for TEAD-N is shown in Figure 2-3.

The IWL, SWMU 2, has been the primary source of the groundwater contamination under the BRAC parcel. The IWL, remediated in 1989, consisted of an unlined evaporation lagoon and four unlined conveyance ditches that tied to a main ditch. The lagoon itself is located outside of the BRAC parcel; however, conveyance ditches associated with the lagoon are located within the BRAC parcel. Wastewater from metal cleaning and stripping, sandblasting, steam cleaning, and other maintenance area operations was routed to the lagoon located northwest of the BRAC parcel via the series of unlined ditches located in the western portion of the BRAC parcel. Specifically, the four unlined conveyance ditches associated with the IWL were located adjacent to Avenues B, C, D, and E. Numerous contaminants including TCE, 1,1,1-trichloroethane, carbon tetrachloride, benzene, 1,1-dichloroethane, 1,1-dichloroethene, and chloroform have been detected in soil, sludge, and groundwater samples collected from the vicinity of the IWL and the associated conveyance ditches. These contaminants are presumed to have originated in the wastewater stream from the Maintenance and Supply Area. TCE is the most predominant contaminant, and is present in a groundwater plume located in part beneath the BRAC parcel. The TCE plume covers approximately 1,700 acres and extends slightly beyond the northern installation boundary. Three municipal water wells for the town of Grantsville are located downgradient of the present plume location. A pump and treat system is currently in operation to remediate the groundwater contamination and prevent additional migration of the plume. Using 13 extraction wells and 13 injection wells, the facility is treating appoximately 5,000 gallons of groundwater per minute. The total amount of groundwater to be treated is 36 billion gallons (REI, 1994b).

The Old Industrial Waste Lagoon (OIWL), SWMU 30, is an ancillary source of groundwater contamination within the BRAC parcel. The OIWL consists of a gravel pit and a series of pre-1965 ditches, lagoons, and spreading areas that were identified on aerial photographs. Many


Tooele Army
Depot – North Area
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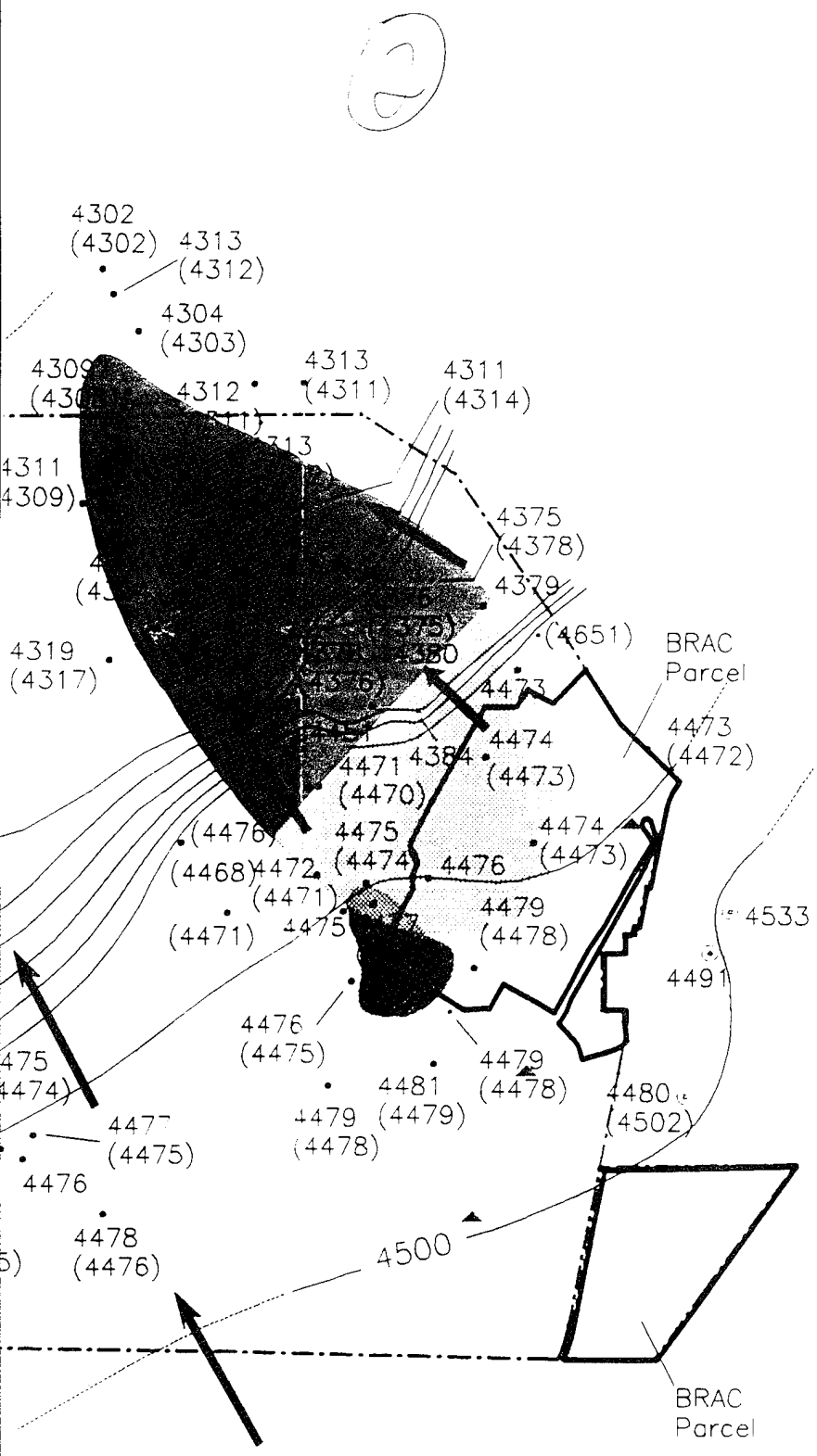

LEGEND

- Existing Groundwater
- Municipal Water Sup
- TEAD–N Water Suppl (Groundwater elevati
- 4298 Groundwater Elevatio (feet above MSL)
- (4296) Groundwater Elevatio (feet above MSL)
- Interpretive Groundwa
- 4300 Groundwater Elevatio (feet above MSL) D Inferred
- BRAC Border
- Installation Boundar
- Estimated extent of Supply Area trichloro defined by 5 ug/L delineated from the conducted during No
- Interpreted estimate Maintenance and Su described above, ba November, 1992[b] dat
- Estimated extent of trichloroethylene plu 5 ug/L contour line the results of samp during November, 19
- Coalescing trichloroe boundaries

25–foot
MSL –

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SOURCE: a JMM, 1992 (modifi
b USCOE, 1993 (mo
c REI, 1994b (modif

Prepared for:

U.S. Army Environmental Cent

Date Revised: 09/09/94
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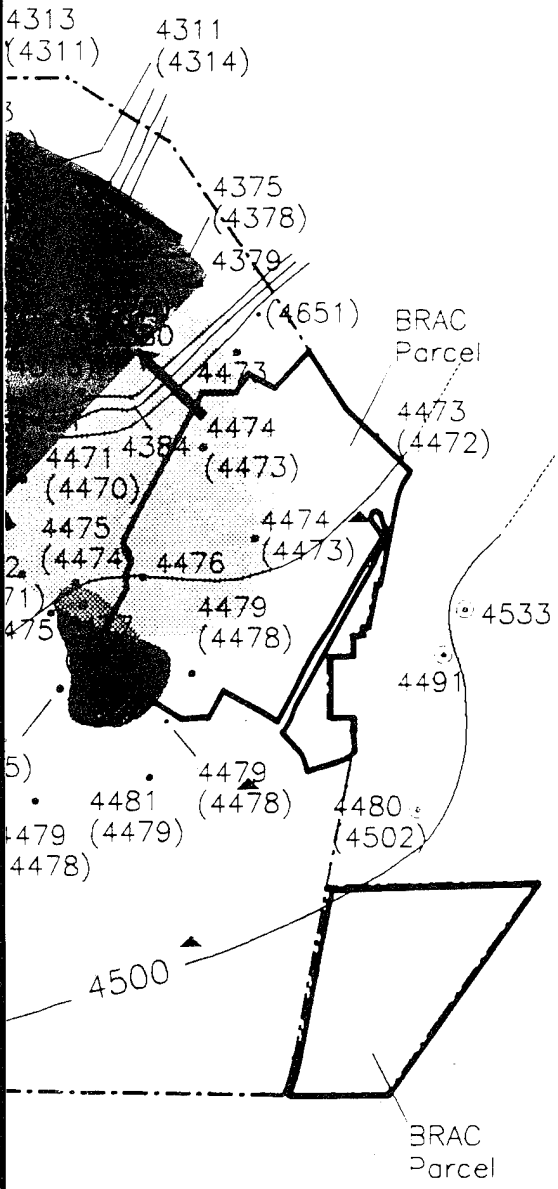
Figure 2–3

Groundwater Contour Map

Prepared by: AGEISS Environmental, Inc.



LEGEND

- Existing Groundwater Monitoring Wells
- Municipal Water Supply Wells
- TEAD-N Water Supply Wells (Groundwater elevation unavailable)
- 4298 Groundwater Elevation June 1992[a] (feet above MSL)
- (4296) Groundwater Elevation January 1993[a] (feet above MSL)
- Interpretive Groundwater Flow Direction
- 4300 Groundwater Elevation Contour (feet above MSL) Dashed Where Inferred
- BRAC Border
- Installation Boundary
- Estimated extent of Maintenance and Supply Area trichloroethylene plume, as defined by 5 ug/L contour line delineated from the results of sampling conducted during November, 1992.[b]
- Interpreted estimated extent of Maintenance and Supply Area plume described above, based on available November, 1992[b] data.
- Estimated extent of Sanitary Landfill trichloroethylene plume, as defined by 5 ug/L contour line delineated from the results of sampling conducted during November, 1993.[c]
- Coalescing trichloroethylene plume boundaries

25-foot Contour Interval
MSL - Mean Sea Level

N

SCALE
0 5000
FEET

SOURCE: a JMM, 1992 (modified)
b USCOE, 1993 (modified)
c REI, 1994b (modified)

Prepared for:

U.S. Army Environmental Center

Date Revised: 09/09/94
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Figure 2-3

Groundwater Contour Map

Prepared by: AGEISS Environmental, Inc. FINAL

of these features are located in the western portion of the Maintenance and Supply Area within the BRAC parcel. Before construction of the IWL (SWMU 2) in 1965, industrial effluent from maintenance operations were discharged to a widespread area referred to as the OIWL. The OIWL was operated for approximately 20 years at an estimated discharge rate of 125,000 gpd of effluent (Weston, 1990). Portions of the OIWL were remediated as part of a RCRA corrective action of the IWL (SWMU 2), since many of the OIWL ditches and lagoons intermingle with ditches from the IWL. On the basis of the Phase II RFI sampling, it appears that widespread metals contamination is present in surface soils wherever industrial wastewater discharge occurred. Contamination, primarily heavy metals, has been documented in all of the ditches and lagoons sampled (REI, 1994b).

Since the same type of waste was discharged to OIWL ditches and collection ponds/lagoons as those defined in the IWL, and contamination has been documented in the trenches and lagoons associated with the OIWL, it has been concluded that the OIWL has also been a source of contamination associated with the plume shown in Figure 2-3. As described earlier, a groundwater pump and treat system is currently in operation to remediate the TCE groundwater plume associated with the IWL. The current groundwater monitoring network and the present groundwater pumping and treatment facility are thought to be sufficient to characterize and remediate contamination related to the OIWL. Particular emphasis, however, should be placed on evaluating the effect of metals contamination since the current treatment system is designed to treat volatile organic compound (VOC)-contaminated groundwater (REI, 1994b).

The Sanitary Landfill, SWMUs 12 and 15, is a secondary source of groundwater contamination in the BRAC parcel. The Sanitary Landfill is located in an arroyo just outside of the southern boundary of the Maintenance and Supply Area portion of the BRAC parcel. The SWMU is approximately 100 acres in size and has been in operation since 1942, and will continue to be used for disposal of large bulky items such as construction debris until November 1995. Previously, the landfill received both hazardous and nonhazardous wastes during its operation. Past waste management practices consisted of burying the wastes in trenches. Numerous contaminants including TCE, 1,2-dichloroethylene, benzene, cyclonite, silver, and hydrocarbons have been detected in downgradient groundwater wells. High concentrations of TCE have been detected in monitoring wells within the southernmost part of the BRAC parcel at the northernmost extent of the plume originating from the Sanitary Landfill. The estimated extent of the Sanitary Landfill plume is shown in Figure 2-3, based on groundwater sampling conducted in November 1993. (REI, 1994b).

The depth to potable groundwater under TEAD-N ranges from 200 to greater than 700 feet. Water supply wells at TEAD-N (Figure 2-3) are used intermittently for industrial use and irrigation of landscaped areas at TEAD-N. Groundwater from the supply wells is treated to meet regulatory maximum contaminant levels to allow for water consumption. Several supply wells are located off-site which are used for irrigation and livestock watering primarily during the summer months. The town of Grantsville obtains drinking water from three community wells which are located downgradient of TEAD-N. The city of Tooele obtains drinking water from supply wells located cross-gradient of TEAD-N, from an upgradient well, and from a surface water source (reservoir) (REI, 1994a).

The quality of groundwater within Tooele Valley is generally acceptable for culinary and agricultural purposes. The concentrations of dissolved solids is reported to range from 283 to 2,180 milligrams per liter (mg/L), with most of the water containing less than 1,000 mg/L.

In summary, groundwater contamination of the alluvial and bedrock aquifers has occurred as a result of operation of the SWMU 2 and SWMU 30 industrial waste lagoons and unlined ditches, as well as from waste disposal operations at the Sanitary Landfill (SWMUs 12 and 15). The resulting groundwater plumes are situated in the northeastern portion of TEAD-N and subsequently under lie the subject BRAC parcel. Groundwater in these plumes is contaminated with a variety of VOCs, the most widespread of which is TCE.

2.4.7 Flora and Fauna

Climate has had a profound influence on the flora of Tooele Valley. The lack of precipitation, low humidity, high summer temperatures, and light winds have forced plants to adapt to a very high-rate of evapotranspiration. Soils are a significant determinant of flora in the area. Many plants have adapted to the soil conditions, including alkaline pH, saline content, low soil moisture content, lack of humus, high mineral ion content, and varying soil depths and types; but these factors also tend to limit the number of plants.

TEAD-N is in the area classified as an Artemisia Biome, which is characterized by sagebrush (Artemisia) and saltbrush, and can be divided into numerous range site types. Vegetation mapping indicates that three range site types comprise the BRAC parcel (REI, 1994a). The BRAC property that is located in the maintenance and supply area has been characterized as Upland Stoney Loam (Pinon-Utah Juniper), which contains bluebunch wheatgrass, cheatgrass, mountain big sagebrush, Utah juniper, and yellowbrush. Important plant species include black sagebrush, bluegrass, and antelope bitterbrush. The BRAC property that is located in the Administrative Area has been characterized as Upland Loam (Mountain Big Sagebrush) and Upland Gravelly Loam (Mountain Big Sagebrush), which contains mountain big sagebrush, rabbitbrush, bluebunch wheatgrass, antelope bitterbrush, and some Utah juniper. Important plant species are Indian ricegrass and bluegrass.

The condensed growth and reproduction periods of the plant communities in Tooele Valley limit the ecological niches available to animal species. Not only is competition for food sources severe during the hot, dry summer and winter dormancy periods, but the animals must adapt to the same climatic conditions. They have adapted as hibernators, estivators, diurnals, or nocturnals, or have physiological adaptations that enable them to survive drought and heat, or cold and snow.

Approximately 127 wildlife species have been identified in the vicinity of TEAD-N, including 58 species of mammals and 63 species of birds. Six reptiles were also identified. No fish or amphibians were identified (REI, 1994a). Several species of game animals exist in the vicinity of TEAD-N. Mule deer, mountain cottontail, and desert cottontail inhabit the area. Fur-bearing animals include coyote and bobcat. Game birds include sage grouse, Gambil's quail, short-tailed grouse, blue grouse, ruffed grouse, and the imported ring-necked pheasant and chukar. In addition to the local game birds, there are 37 species of migratory waterfowl that use the flyways through TEAD. Several species have been eliminated from the areas, including bison, grizzly bear, elk, black bear, pronghorn antelope, and mountain sheep. The mountain sheep, pronghorn antelope, and elk have been or are being reintroduced, mainly in the mountains (EAESTI, 1988).

There are 15 endangered, candidate, or sensitive wildlife species either known to occur or that potentially occur on TEAD-N. Eleven of these are protected by the Endangered Species Act of 1973, Section 668-668d (REI, 1994a). Nine endangered, candidate, or sensitive bird

species have been either identified in the region or observed on the TEAD-N facility. Of these species, the bald eagle and the peregrine falcon are Federal endangered species; all of the others are Federal candidate species (Category II). The golden eagle, which is protected under the Eagle Protection Act, has also been observed at TEAD-N. These protected species include the following:

- Bald eagle
- American peregrine falcon
- Western snowy plover
- White-faced ibis
- Swainson's hawk
- Western yellow-billed cuckoo
- Mountain plover
- Golden eagle

Additionally, two Federal candidate mammalian species, the Skull Valley pocket gopher and the spotted bat, may also occur on the site. Four Utah sensitive species occur on the site either as permanent or seasonal residents, or they may potentially occur on the site. These species include mule deer, pronghorn antelope, sage grouse, and chukar.

2.4.8 Archeological Resources

Tooele Valley has supported four separate Indian cultures. The Early Desert Archaic culture inhabited the area some 11,000 years ago, followed by the Late Desert Archaic, Freemont, and Numic-speaking cultures.

The Freemont culture (circa 700 A.D. to 1400 A.D.) was the most important in the area from an archaeological perspective. The Freemonts were horticulturally oriented, augmenting their diet with hunting. Freemont hunting and recreational sites are located in the Sandy Hills Area. Pottery and bows and arrows were used by the Freemonts and some artifacts have been found in this area. The Freemonts set up a community on South Willow Creek with over 100 pit dwellings along the banks on land either owned or controlled in part by TEAD. Eight of the dwellings are within TEAD's perimeter fence and are relatively undisturbed. None of the dwellings inside the installation are located within the BRAC parcel, however. The dwellings off TEAD have been severely damaged by archaeological excavation in the past. An 80-acre reservoir is planned by the Utah Department of Natural Resources for South Willow Creek abutting TEAD. The planned reservoir would inundate the majority of the Freemont sites off TEAD (EAESTI, 1988).

The Numic-speaking culture (Shoshones) was the last Indian culture in the vicinity. This tribe appeared 100 through 200 years before the Freemont culture disappeared. The Numic-speaking culture, which was a more nomadic hunting culture than the Freemont peoples, adapted to the increased aridity and still live nearby on the Goshute Reservation and the Skull Valley Indian Reservation (EAESTI, 1988).

A 4-foot high by 5-feet in diameter rock was found in the northeast portion of TEAD-N, outside the BRAC parcel, covered by petroglyphs in a deteriorated state. Although the petroglyph was found in an area of rock outcropping, no other petroglyphs have been found. In 1992, a cover was constructed over the rock to protect it from further deterioration. The petroglyph has been nominated for inclusion in the National Historical Register (EAESTI, 1988).

Additional traces of prehistoric habitation have recently been uncovered near the western boundary of TEAD-N, within the limits of the installation. The extent and importance of this site have not yet been determined (EAESTI, 1988).

2.5 PREVIOUS ENVIRONMENTAL STUDIES AT TEAD-N

A variety of environmental investigations have been conducted at TEAD-N from 1979 to the present (Table 2-2). In 1987, a Draft Interim RCRA Facility Assessment for TEAD-N (NUS, 1987) identified 28 SWMUs. These SWMUs were suspected or known to have released contaminants into the environment. Subsequent investigations resulted in the identification of an additional 18 SWMUs, which resulted in a total of 46 hazardous waste sites at TEAD-N. Under the terms of Post-Closure Permit (PCP) #UT3213820894 (USDEQ, 1993) signed on January 7, 1991, the USDEQ-DSHW is requiring TEAD to conduct corrective action investigations at 46 SWMUs. For regulatory purposes, the 46 SWMUs were divided into three groups for environmental investigation and potential remediation. Two of the groups (SWMUs with known releases and suspected releases) are being administered under the requirements of RCRA, while the third group is being administered under CERCLA under a Federal Facility Agreement (FFA). However, it should be noted that as a result of the ENPA process, six additional SWMUs have been identified and will be addressed under the RCRA process.

2.5.1 CERCLA Status

On October 2, 1984, the EPA proposed TEAD-N for inclusion on the National Priorities List (NPL). The facility was listed on the NPL on October 1, 1990. As a result, the EPA, State of Utah, and TEAD entered into a FFA on September 16, 1991. In this agreement, 17 of the 46 SWMUs were redesignated as CERCLA sites contained within seven operable units (OUs). In 1991, work plans for a Remedial Investigation (RI)/Feasibility Study for the 17 CERCLA sites were prepared, and field investigation activities were completed in the summer of 1992 on the basis of these plans. The Final RI Reports documenting this work were submitted in July 1993 and February 1994. To complete the investigation, another round of field activities was conducted during the Spring/Summer of 1994 at some of the sites. An RI report addendum will be produced at the end of the study. Six of the 17 CERCLA sites are located within the subject BRAC parcel. As per recent conversations with AEC and AEC's comments on the Draft ENPA, the CERCLA sites are now being referred to as SWMUs. Thus, in this report all CERCLA sites are referred to as SWMUs.

2.5.2 RCRA Status

The remaining original 29 SWMUs are covered under a RCRA PCP, which was issued to TEAD by the State of Utah on January 7, 1991. Under the PCP, the SWMUs were divided into nine known-release SWMUs and 20 suspected-release SWMUs.

In 1991, TEAD received a Utah Hazardous Waste PCP for the IWL (SWMU 2). As part of this PCP, a RFI Phase I Summary Report was required which identified all SWMUs where known releases of hazardous wastes have occurred at TEAD-N. A RCRA Phase I Summary Report for Known-Release Units was submitted to the State of Utah in November 1991 and approved in March 1992. In accordance with the permit, work plans for a Phase II RFI were submitted to the State in June 1992 and approved in April 1993.

Table 2-2. Summary of Environmental Investigations at TEAD-N from 1979 to the Present.

Report Issue Date	Investigation Title (Study Lead)	Objective	Scope	Conclusions and Recommendations
December 1979	Environmental Assessment of Tooele Army Depot, Report No. 141 (for USATHAMA)	Assess environmental quality of TEAD with regard to use, storage, treatment, and disposal of hazardous materials and define any possible public health concern	A records review was conducted to identify major source areas.	The potential for chemical migration exists at both TEAD-N and TEAD-S. Major chemicals of concern are chemical agents, plating rinse waters, and explosive residues.
June 1982	Installation Environmental Assessment (Inland Pacific Engineering Co. under USACE)	Define TEAD activities and their potential environmental impact	The report described TEAD activities, facilities, and the surrounding environment. An inventory of indigenous flora and fauna at TEAD-N was conducted.	The report provided a summary of environmental, human, and economic impact in the event of closure and/or clean-up.
1982 through 1985	Investigation at the Open Burning/Open Detonation Areas (U.S. Army Environmental Hygiene Agency)	Evaluate potential for environmental contamination at OB/OD areas at Army depots nationwide with respect to Federal regulations; determine which areas should be used for continued OB/OD operations	The potential for soil, surface water, groundwater, and surface soil contamination was established via records review and limited sampling of potential source media.	The soil study indicated no remedial action necessary. No OB/OD areas were closed as a result of study.
1982	Exploratory Environmental Contamination Assessment Report (Earth Technology Corporation)	Identify potential source areas at both TEAD-N and TEAD-S	Phase I used existing data to identify SWMUs of concern. Phase II installed monitoring wells, performed geophysical surveys, and sampled/analyzed soil, sediment, groundwater, and surface water at SWMUs with the greatest contamination potential.	The report concluded that there had been minimal contamination and migration in all media. The IWL plume was identified.
May 1983	Analysis of Existing Facilities/ Environmental Assessment Report (TEAD Facilities Engineering)	Identify and summarize activities and missions associated with TEAD and perform an environmental assessment of these activities	Major activities, cultural elements, and environmental characteristics surrounding TEAD were described.	No conclusion or recommendations for further study were presented.
January 1985	Monitoring Activity and Waste Disposal Review and Evaluation (CH2M Hill)	Determine adequacy of 1982 Phase I and II investigations and determine if adequate information is available to support an FS	All available data were reviewed to determine existence of data gaps.	Data deficiencies were identified in the 1982 Phase II report. Recommendations included sample/analyze all existing monitoring and water supply wells on a semiannual basis, and sample/analyze Well No. 1 and have results reviewed by medical community to determine possible health risks due to chemicals in groundwater.
March 1985	A Study of Environmental Balance (Department of the Army)	Describe the environmental management program at TEAD	An ecological profile of TEAD was developed. TEAD's goals with respect to air, water, solid waste, radiation, and hazardous materials management were also presented.	Further environmental controls are necessary at TEAD to prevent chemical releases.

NOTE: An acronym list is provided on the last page of this table.

Table 2-2. Summary of Environmental Investigations at TEAD-N from 1979 to the Present.

Report Issue Date	Investigation Title (Study Lead)	Objective	Scope	Conclusions and Recommendations
March 1985	Performance of Remedial Response Activities at Uncontrolled Hazardous Waste Sites - Final Plan (Camp, Dresser, and McKee)	Review documents developed for or by the DOD and make recommendations regarding documents' completeness	Technical support and potential approaches to site remediation were discussed.	A guide to implementing alternative remedial actions at TEAD was recommended.
1985	Interim Groundwater Quality Assessment Report (Woodward-Clyde)	Assess the distribution of chemicals in groundwater in the vicinity of the unlined IWL and connecting ditches	Activities included sampling/analyzing lagoon liquid, lagoon sludge, and soils surrounding the lagoon and ditches. Existing monitoring wells and water supply wells in the vicinity of the IWL were also sampled and analyzed.	Contamination of groundwater downgradient of IWL was identified. Identified sources include surface water, sludge, and soil containing various VOCs, SVOCs, and metals.
November 1985	Analytical/Environmental Assessment Report (TEAD Facilities Engineering)	Summarize conclusions of previous studies and assess potential environmental impact due to future development plan	Site maps were updated, and existing land use studied to determine accuracy of existing Preservation Plan. New data, including interviews with security, traffic control, and health services personnel, were collected and analyzed.	The report concluded that no currently proposed project at TEAD presents long-term or irreversible negative impacts on the Tooele Valley environment.
January 1986	Industrial Wastewater Lagoon and Ditches - Groundwater Quality Assessment Report, Corrective Action Plan, and Record of Decision (James M. Montgomery)	Define the extend and magnitude of groundwater contamination associated with the IWL	Phase I characterized geologic conditions and groundwater flow (31 piezometers). Phase II determined the distribution of chemicals in groundwater (25 monitoring wells). Phase III evaluated remedial alternatives.	TCE was the predominant chemical present. Highest concentrations were found adjacent to the wastewater ditches south of the IWL. Remediation would occur at the northern end of the TEAD-N using extraction wells, an air stripper, and injection wells. Estimated time for remediation was 30 years.
March 1986	Engineering Report for Closure of the Industrial Wastewater Lagoon (James M. Montgomery)	Assess feasible alternatives for closing the IWL with respect to cost, effectiveness, and regulatory compliance and develop necessary engineering analyses for closure	The report provided a description of the distribution of source chemicals, discussed available treatment processes, and recommended a closure approach.	The report concluded that for source soils and sludges at the IWL removal and off-site disposal, or removal to new, on-site disposal facility were most feasible remedial alternatives.
July 1986	Environmental Photographic Interpretation Center Report (EPA)	Identify possible areas of hazardous wastes and identify corrective actions and/or necessary investigations	Archival black and white aerial photographs were acquired for approximately 5-year intervals between 1940 and 1981.	Black and white enlargements of seven significant areas were provided.
August 1987	Draft Interim RCRA Facility Assessment (NUS)	Evaluate releases of hazardous wastes and identify corrective actions and/or necessary investigations	Existing EPA files were renewed (desktop survey) to verify characteristics of SWMUs and identify additional SWMUs.	Sampling was conducted at several SWMUs, including IWL, X-Ray Lagoon, Pole Transformer, PCB Spill Site, TNT Washout Facility, Pesticide/Herbicide Handling and Storage Building, Sewage Lagoons, Sanitary Landfill, and Battery Pit.

NOTE: An acronym list is provided on the last page of this table.

Table 2-2. Summary of Environmental Investigations at TEAD-N from 1979 to the Present.

Report Issue Date	Investigation Title (Study Lead)	Objective	Scope	Conclusions and Recommendations
May 1988	Groundwater Quality Assessment Engineering Report (James M. Montgomery)	Additional characterization of groundwater quality in IWL areas	Twelve monitoring wells were installed, and groundwater from 19 existing wells was sampled and analyzed.	Major VOCs were detected in TEAD-N monitoring wells. Major cations and anions, however, were found to increase in concentration with depth and distance along groundwater flow lines.
December 1988	Final Preliminary Assessment/Site Investigation Report (EA Engineering, Science, and Technology, Inc.)	Identify TEAD-N SWMUs that present a known or potential threat to public health or the environment	Existing databases were reviewed for potential source information; and an on-site inspection was conducted. Five monitoring wells and four lysimeters were installed and sampled.	Explosives were detected in soils and sediments at the TNT Washout Facility. Recommendations included discontinuing or relocating the laundry facility or installing an impermeable liner beneath the pond and inspect the liner at the X-Ray Lagoon.
December 1990	Final Remedial Investigation Report (Roy F. Weston, Inc.)	Identify and investigate data gaps for the TNT Washout Facility, Chemical Range, Old Burn Area, Sanitary Landfill, and Drum Storage Areas	Existing data were reviewed and an extensive filed program was implemented consisting of 30 boreholes for soil characterization and 28 monitoring wells. An extensive geophysical survey was also conducted.	Contamination assessment indicated low concentrations of explosives in shallow soils surrounding the TNT Washout Facility. Contaminants were detected in groundwater at the Sanity Landfill. Surface soil/ groundwater contamination at the Drum Storage Areas was limited. Surface soil samples from the Chemical Range and the Old Burn Area exhibited low concentrations of metals.
February 1991	Groundwater Quality Assessment for Tooele Army Depot, Tooele, UT (Environmental Science and Engineering, Inc.)	Provide additional data regarding groundwater elevations and provide analytical data for the Groundwater Quality Assessment of the IWL for corrective actions evaluation	Groundwater elevation measurements from 140 existing piezometers and monitoring wells were collected, and groundwater samples were collected and analyzed from 26 existing monitoring wells.	Conditions at TEAD are very similar to results from previous investigations. Groundwater flow gradient is in a north to northwest direction. The contaminants detected during this investigation, and the TCE plume position are similar to results of the 1988 and 1990 investigations.
1991	RFI Phase I Summary Report for Known Release Units (Advanced Sciences, Inc.)	Summarize information regarding SWMUs with known releases at TEAD-N	Work consisted of a files search, review, and data evaluation.	Proposed sampling and analysis program by E. C. Jordan was evaluated and appropriate recommendations were retained. Additional recommendations were made by Advanced Sciences, Inc. on the basis of the data review.
1992	Final Preliminary Baseline Risk Assessment for Tooele Army Depot - North Area (SEC Donohue, Inc.)	Conduct a preliminary assessment of risk to human health from contaminants identified from previous investigations	Work included review of existing data, development of contaminants of concern, identification of exposure pathways, potentially exposed populations, and calculation of associated risk to human health.	Document provides a preliminary baseline. Additional risk assessments will be required on a site-by-site basis as data become available. Preliminary results indicate highest risk to be related to hypothetical future on-site residents.

NOTE: An acronym list is provided on the last page of this table.

Table 2-2. Summary of Environmental Investigations at TEAD-N from 1979 to the Present.

Report Issue Date	Investigation Title (Study Lead)	Objective	Scope	Conclusions and Recommendations
August 1993	Final Phase I RCRA Facility Investigation Report for Suspected Release SWMUs (James M. Montgomery and Roy F. Watson, Inc.)	Determine the presence or absence of environmental contamination at each of the suspected release SWMUs and to recommend either additional investigation or no further action	Field sampling investigations were conducted at 17 of the 20 suspected release SWMUs.	Results of the sampling programs indicate that contaminants have been released at 16 of the 20 suspected releases SWMUs. Phase II investigations, including Baseline Risk Assessments, are recommended for those 16 SWMUs where suspected releases have been confirmed.
January 1994	Final Remedial Investigation Report for Operable Units 4-10 (Rust Environment and Infrastructure)	Investigate the nature and extent of contaminant releases within each OU and assess the potential risk to human health and the environment posed by these releases	Field investigation activities were conducted in some cases to fill data gaps and in other cases to take a first look at whether contaminant releases have occurred as a result of previous TEAD-N operations and whether these releases have had or may have an adverse impact on human health and the environment. The activities were not designed to fully characterize the extent of contamination.	Additional sampling was recommended for OU4; one site at OU5; three sites at OU7; two sites at OU8; and two sites at OU9. Removal of drums was recommended for OU10.
August 1994	Final Draft RCRA Facilities Investigation Report Phase II Study for known Release SWMUs (RUST Environment and Infrastructure)	Further investigate the nature and extent of nine known-release SWMUs and fill data gaps from previous investigations	Field investigation activities were conducted to fill data gaps for two known-release SWMUs and to conduct two rounds of sampling to characterize potential contamination associated with seven others. The investigation was designed to adequately evaluate risks to human health and the environment and to make recommendations for a corrective measures study (CMS).	No further RFI/CMS activities were recommended for three of the known-release SWMUs, because no risks to human health and the environment were identified that exceed EPA and State of Utah criteria under current conditions. A CMS was recommended for six of the known-release SWMUs.

Army	U.S. Army
CMS	Corrective Measures Study
DOD	U.S. Department of Defense
EPA	U.S. Environmental Protection Agency
FS	Feasibility Study
IWL	Industrial Waste Lagoon
No.	Number
OB	Open Burn
OD	Open Detonation
OU	Operable Unit
PCB	Polychlorinated biphenyl
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SVOC	Semivolatile Organic Compound
SWMU	Solid Waste Management Unit
TCE	Trichloroethylene
TEAD	Tooele Army Depot
TEAD-N	Tooele Army Depot - North Area
TEAD-S	Tooele Army Depot - South Area
TNT	Trinitrotoluene
USACE	U.S. Army Corps of Engineers
USATHAMA	U.S. Army Toxic and Hazardous Materials Agency
VOC	Volatile Organic Compound

For the 20 suspected-release SWMUs, a Final Phase I RFI was completed in August 1993. The objective of the Phase I RFI was to determine the presence or absence of environmental contamination at each of the suspected-release SWMUs and to recommend either additional investigations or no further action. The Final Phase I RFI for the suspected-release SWMUs resulted in a no further action determination for four of the SWMUs and recommendations for further investigations (Phase II investigations) for 16 of the SWMUs.

The Final Draft RFI Report Phase II Study of Known-Release SWMUs was completed in August 1994. The objective of the Phase II RFI was to fill data gaps from Phase I investigations for two SWMUs and to conduct two rounds of sampling to characterize potential contamination associated with seven others. The Final Phase II RFI for the nine known-release SWMUs resulted in a recommendation for no further RFI/CMS activities for three of the SWMUs and recommendations for a Corrective Measures Study (CMS) at the other six. Ninety days after final approval of this report, a CMS is due.

This process will result in a CMS Report and a Statement of Basis document, which will summarize the information from the RFI and CMS reports to facilitate public participation in the remedy-selection process. Three known-release SWMUs and 11 suspected-release SWMUs are located partially or completely within the subject BRAC parcel.

It should be noted that as a result of the ENPA process, six additional SWMUs (SWMUs 50-55) have been identified and are scheduled for investigation under the ongoing RFI (Oliver, 1994).

3.0 AREAS REQUIRING ENVIRONMENTAL EVALUATION

In this section of the report, AREEs that were identified within the TEAD-N BRAC parcel are discussed. Many of the AREEs were documented in information previously gathered during various investigations and reports, most importantly the Final Phase I RCRA Facility Investigation Report (MW, 1993). Final Draft RCRA Facilities Investigation Report Phase II Study of Known-Release SWMUs (REI, 1994b), and the Final Remedial Investigation Report for Operable Units 4-10 (REI, 1994a). Additional AREEs were identified based upon evaluation of other existing installation documentation, visual inspection, and employee interviews during the site visits conducted on October 12 through 15 and October 25 through 28, 1993; and August 23, 1994. Table 3-1 provides a summary of all AREEs by number. The locations of the majority of AREEs are shown in Figures 3-1 and 3-2; however, AREEs that are installation-wide or cover a large areal extent are discussed in detail in the text but are not displayed on the maps. Appendix C contains photographs of most of the AREEs. Impacts of the AREEs on environmental media, including groundwater, surface water, soil, and air, are discussed in Section 4.0.

Some areas or facilities within the BRAC parcel that have been of concern in past environmental investigations may not be considered an AREE under this investigation, generally because they have been remediated or have not been considered for further action under the RFI. These areas are discussed in Section 3.20.

3.1 SWMU 49: OLD WASTEWATER DISTRIBUTION SYSTEM/RADIATOR REPAIR FACILITY (AREE 1)

3.1.1 Description

This AREE, the Old Wastewater Distribution System, is comprised of the following three components: 1a) Current Stormwater Sewer System (Former Industrial Wastewater Pipelines); 1b) Old Connections to the New Industrial Wastewater System; and 1c) the Radiator Repair Facility. This AREE has not been previously identified as a concern during other environmental investigations; however, the State of Utah has recently identified this AREE as SWMU 49 which is subject to the conditions for corrective action in the RCRA PCP (Anderson, 1993).

3.1.1.1 Current Stormwater Sewer System (Former Industrial Wastewater Pipelines) (1a)

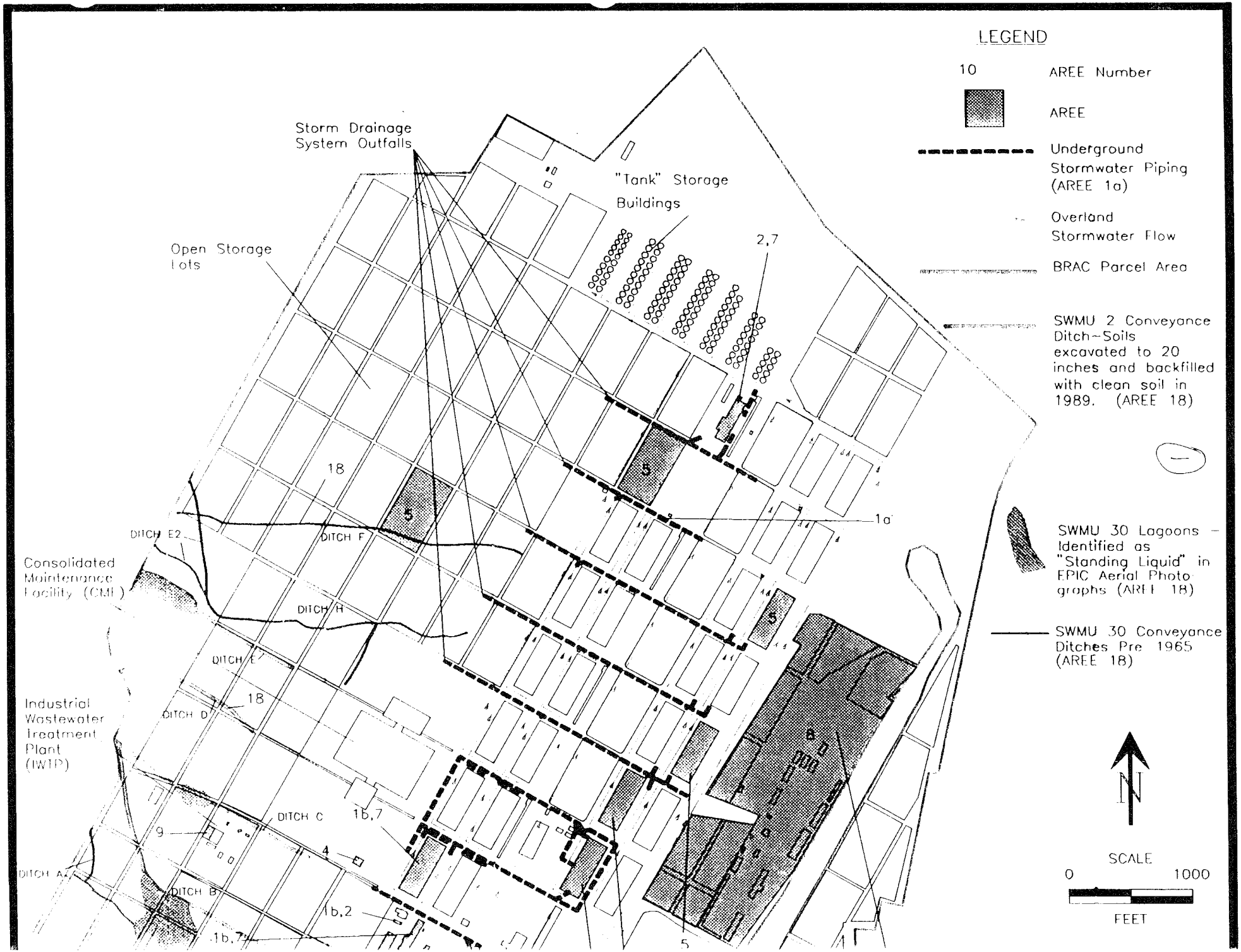
AREE 1a is defined as the current stormwater sewer system, which was formerly used as the industrial wastewater system, as explained below. The BRAC parcel is underlain by a series of manholes, pipes, drain systems, and culverts that function as the stormwater drainage system for the entire Maintenance and Supply Area. The underground system is fed from surficial stormwater flow. The topography within the BRAC parcel is such that during a storm event surficial flow of stormwater is to the north. The surface water enters the underground piping system through drains that are located throughout the Maintenance and Supply Area. Flow is discharged from the system through a series of culverts along the eastern side of the OSLs that are located west of the maintenance buildings. Discharged water drains onto the surface and dissipates through evaporation and infiltration. The current stormwater sewer system is shown on Figure 3-1.

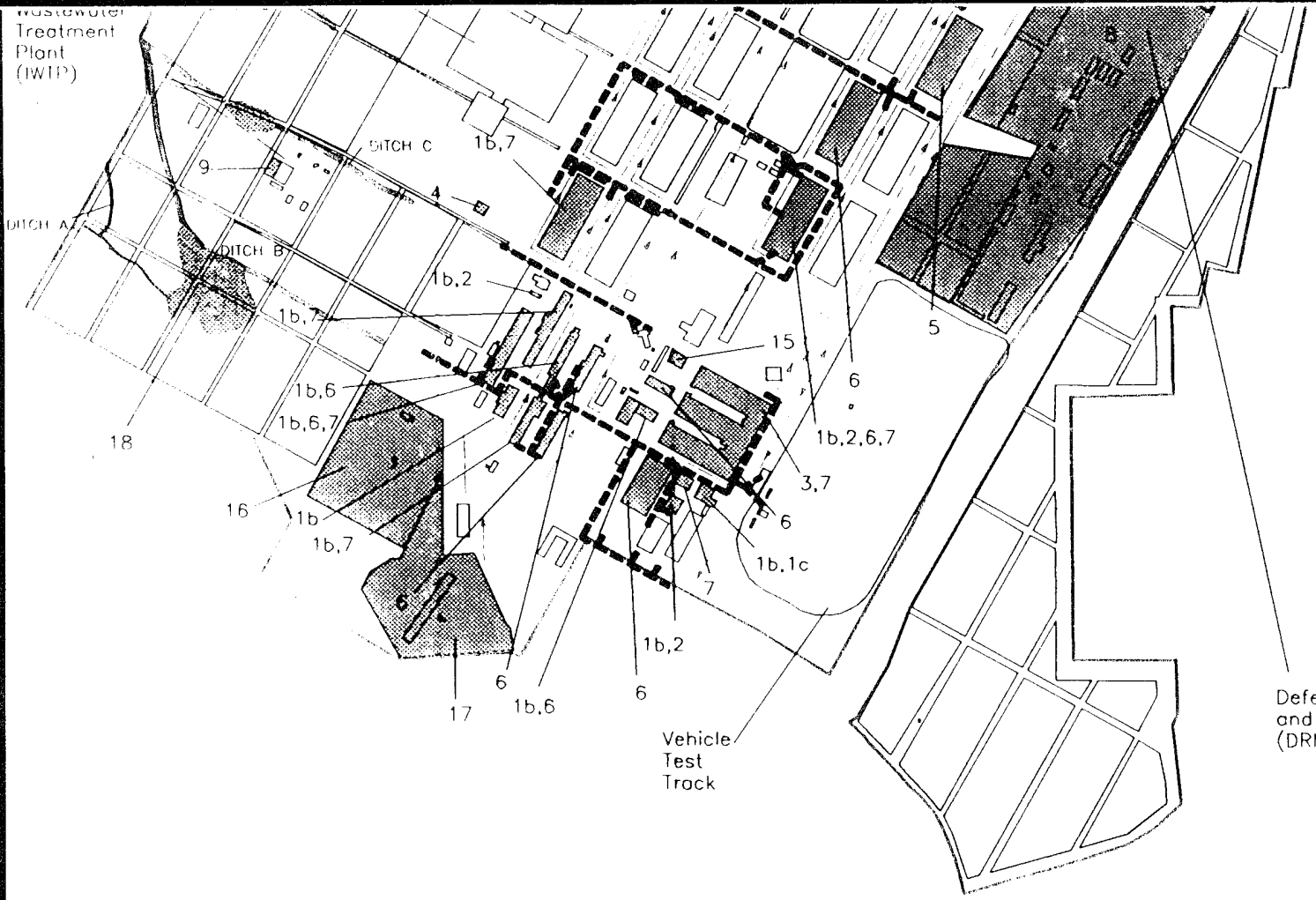
Prior to the construction of the IWTP and the installation of the industrial wastewater pipeline, both stormwater and industrial wastewater were delivered simultaneously through the piping that now carries stormwater only. A system of drains and pipes originating at the effluent

Table 3-1. Areas Requiring Environmental Evaluation.

AREE Number	Description	Building Numbers/Locations
1	SWMU 49: Old Wastewater Distribution System/Radiator Repair Facility	
(a)	Current Stormwater Sewer System	Located above and below ground throughout the Maintenance and Supply Area
(b)	Old Connections to the New Wastewater System	Buildings 600, 601, 602, 606, 609, 610, 611, 612, 615, 620, and 637
(c)	Radiator Repair Facility	Building 609
2	SWMU 47: Boiler Plant Blowdown Water	Buildings 606, 610, 637, and 691
3	SWMU 50: Compressor Condensate Drain	Building 619
4	SWMU 51: Chromic Acid/ Alodine Drying Beds	Four Concrete Pads Marked "623"
5	SWMUs 31, 32, and 53: PCB-Related Areas	SWMU 31 - Former Transformer Boxing Site (OSL 680) SWMU 32 - PCB Spill Site (OSL 665D) SWMU 53 - Soils at Buildings 659 and 679
6	SWMUs 4 and 54: Sand Blast Areas	SWMU 4 - Buildings 600, 615, and 617 (current operations) SWMU 54 - Buildings 603, 604, 612, 613, 637, and 647 (past operations)
7	SWMU 46: Waste Oil Dumpsters/Storage Tanks	Buildings 600, 602, 607, 611, 619, 620, 637, and 691
8	SWMU 26: DRMO Area	Includes various structures and OSLs within the DRMO
9	SWMU 38: Industrial Wastewater Treatment Plant	Includes the area west of Building 713
10	Asbestos	Facility-wide
11	PCB-Containing Transformers	Facility-wide
12	Underground Storage Tanks	Facility-wide
13	Above Ground Storage Tanks	Facility-wide
14	SWMU 52: Drain Field and Disposal Trenches	Disposal trenches located at the southwest corner of the Administration Area BRAC parcel; drain field located at the northwest corner of the Administration Area BRAC parcel
15	SWMU 55: Battery Shop	Building 618
16	SWMU 28: 90-Day Drum Storage Area	Buildings 588, 596, and 656
17	SWMU 29: Drum Storage Areas	Buildings 576 and 589
18	SWMUs 2 and 30: Conveyance Ditches and Lagoons	Includes various OSLs west of the Maintenance and Supply Area; the ditches and lagoons are not visible from the surface, but have been identified through historical aerial photographs
19	Lead-Based Paint	Buildings in the Administration Area, specifically Buildings S-101, S-103, S-104, S-110, S-111, S-113, S-115, S-117, S-118, S-119, S-120, S-121, S-122, S-123, S-124, S-125, S-126, S-141, S-143, S-145, S-147, S-149, S-150, S-151, S-152, S-153, S-155, 1000, 1001, 1002, 1004, 1005, 1010, and Tooele Valley High School

AREE Area Requiring Environmental Evaluation
DRMO Defense Reutilization and Marketing Office
OSL Open Storage Lot
PCB Polychlorinated biphenyl
SWMU Solid Waste Management Unit


LEGEND
10
AREE Number
AREE
Underground Stormwater Piping (AREE 1a)
Overland Stormwater Flow
BRAC Parcel Area
SWMU 2 Conveyance Ditch-Soils excavated to 20 inches and backfilled with clean soil in 1989. (AREE 18)
SWMU 30 Lagoons - Identified as "Standing Liquid" in EPIC Aerial Photographs (AREE 18)
SWMU 30 Conveyance Ditches Pre 1965 (AREE 18)
Storm Drainage System Outfalls
"Tank" Storage Buildings
Open Storage Lots
Consolidated Maintenance Facility (CMF)
Industrial Wastewater Treatment Plant (IWTP)
DITCH E2
DITCH F
DITCH H
DITCH E
DITCH D
DITCH C
DITCH A
DITCH B
18
1a
1b,7
1b,2
9
4
2,7
5
N
SCALE
0
1000
FEET

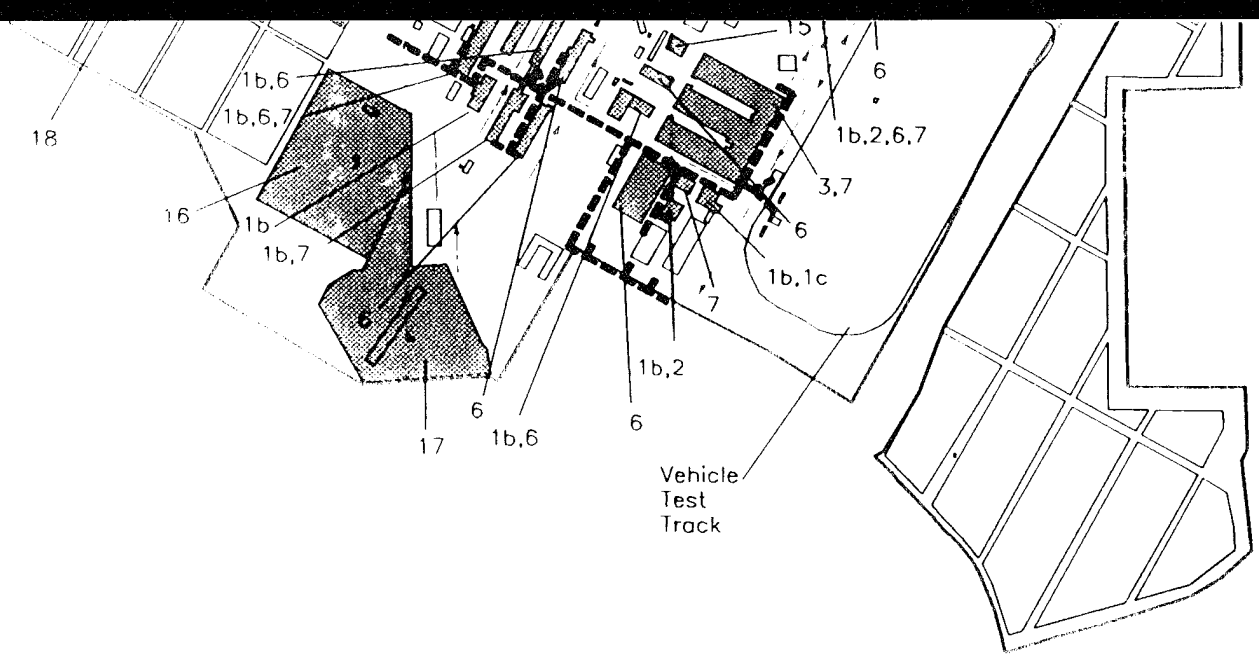


AREE Number	Description	AREE Number	Description
1a.	SWMU 49: Old Wastewater Distribution System – Current Stormwater Sewer System	9.	SWMU 38: Industrial Wastewater Treatment Plant (IWTP)
1b.	SWMU 49: Old Wastewater Distribution System – Old Connections to the New Wastewater System	10.	Asbestos *
1c.	SWMU 49: Radiator Repair Facility	11.	PCB-Containing Transformers *
2.	SWMU 47: Boiler Plant Blowdown Water	12.	Underground Storage Tanks *
3.	SWMU 50: Compressor Condensate Drain	13.	Above Ground Storage Tanks *
4.	SWMU 51: Chromic Acid/Alodine Drying Beds	14.	SWMU 52: Drain Field and Disposal Trenches *
5.	SWMUs 31, 32, and 53: PCB-Related Areas	15.	SWMU 55: Battery Shop
6.	SWMUs 4 and 54: Sand Blast Areas	16.	SWMU 28: 90-Day Drum Storage Area
7.	SWMU 46: Waste Oil Dumpsters/Storage Tanks	17.	SWMU 29: Drum Storage Areas
8.	SWMU 26: Defense Reutilization and Marketing Office (DRMO) Yard	18.	SWMUs 2 and 30: Conveyance Ditches and Lagoons
		19.	Lead-Based Paint *

* Not shown on figure.

Prepared for:

Figure 3-1



SOURCES: Office of the Facilities Engineer, 1991 (modified)
Tooele Army Depot
Tooele, Utah

REI, 1994b (modified)

ERI, 1993 (modified)

AREE Number	Description	AREE Number	Description
1a.	SWMU 49: Old Wastewater Distribution System – Current Stormwater Sewer System	9.	SWMU 38: Industrial Wastewater Treatment Plant (IWTP)
1b.	SWMU 49: Old Wastewater Distribution System – Old Connections to the New Wastewater System	10.	Asbestos *
1c.	SWMU 49: Radiator Repair Facility	11.	PCB-Containing Transformers *
2.	SWMU 47: Boiler Plant Blowdown Water	12.	Underground Storage Tanks *
3.	SWMU 50: Compressor Condensate Drain	13.	Above Ground Storage Tanks *
4.	SWMU 51: Chromic Acid/Alodine Drying Beds	14.	SWMU 52: Drain Field and Disposal Trenches *
5.	SWMUs 31, 32, and 53: PCB-Related Areas	15.	SWMU 55: Battery Shop
6.	SWMUs 4 and 54: Sand Blast Areas	16.	SWMU 28: 90-Day Drum Storage Area
7.	SWMU 46: Waste Oil Dumpsters/Storage Tanks	17.	SWMU 29: Drum Storage Areas
8.	SWMU 26: Defense Reutilization and Marketing Office (DRMO) Yard	18.	SWMUs 2 and 30: Conveyance Ditches and Lagoons
		19.	Lead-Based Paint *

* Not shown on figure.

Prepared for:

U.S. Army Environmental Center

Date Revised: 09/23/94

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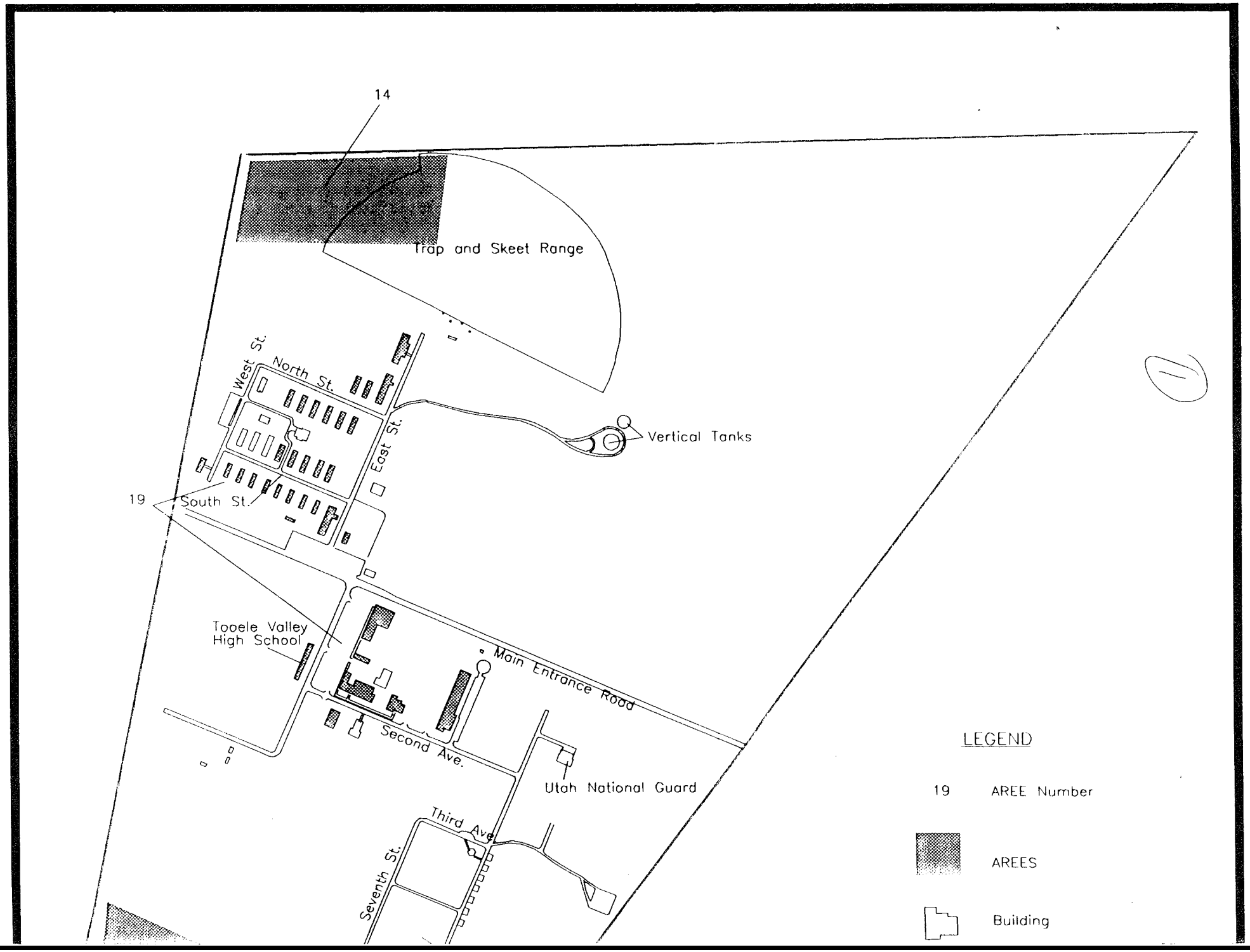
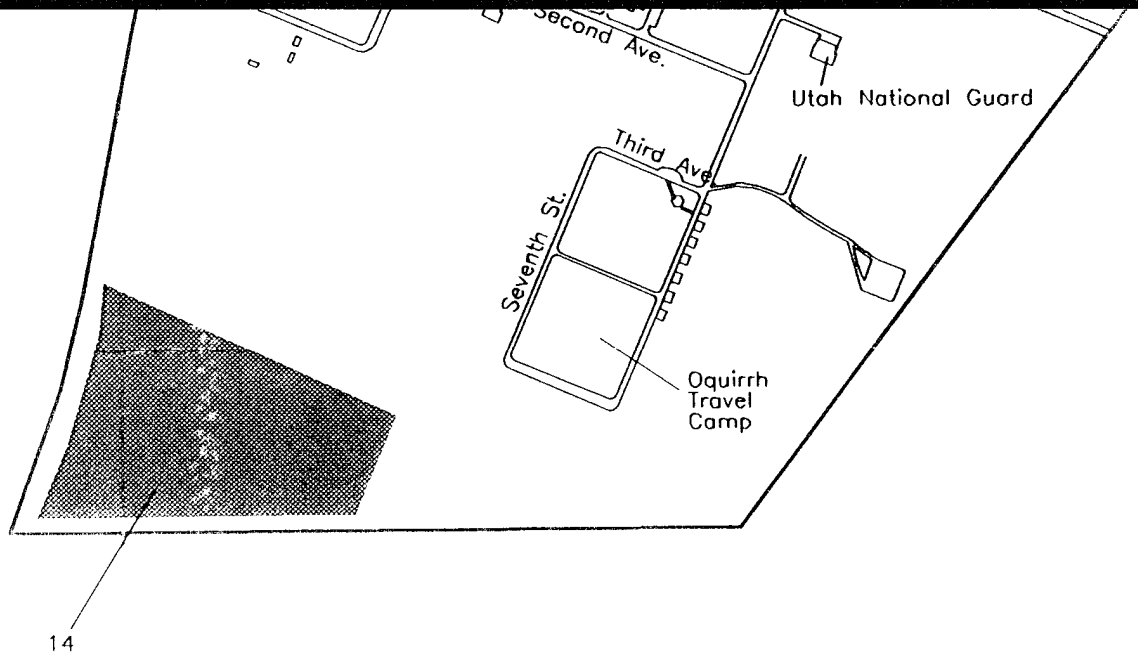
Figure 3-1

Areas Requiring Environmental Evaluation – Maintenance and Supply Area

Prepared by: AGEISS Environmental, Inc.

FINAL


14
Trap and Skeet Range
West St.
North St.
East St.
Vertical Tanks
19
South St.
Tooele Valley
High School
Main Entrance Road
Second Ave.
Utah National Guard
Third Ave.
Seventh St.
LEGEND
19 AREE Number
AREES
Building



LEGEND

19 AREE Number

AREES

Building

BRAC Parcel Area

SCALE
0 700
FEET

N

NOTE: This figure includes AREE 12 underground storage tanks and AREE 13 above ground storage tanks. The installation inventory of tanks is organized by building number. As such, shading of the buildings associated with the tanks was avoided to eliminate confusion concerning the extent of the AREE.

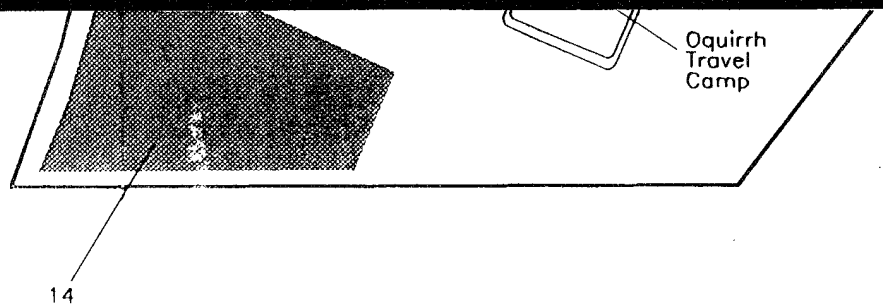
SOURCE: Office of the Facilities Engineer, 1991 (modified)
Tooele Army Depot
Tooele, Utah

AREE Number	Description	AREE Number	Description
1a.	SWMU 49: Old Wastewater Distribution System – Current Stormwater Sewer System *	9.	SWMU 38: Industrial Wastewater Treatment Plant (IWTP) *
1b.	SWMU 49: Old Wastewater Distribution System – Old Connections to the New Wastewater System *	10.	Asbestos *
1c.	SWMU 49: Radiator Repair Facility *	11.	PCB-Containing Transformers *
2.	SWMU 47: Boiler Plant Blowdown Water *	12.	Underground Storage Tanks *
3.	SWMU 50: Compressor Condensate Drain *	13.	Above Ground Storage Tanks *
4.	SWMU 51: Chromic Acid/Alodine Drying Beds *	14.	SWMU 52: Drain Field and Disposal Trenches
5.	SWMUs 31, 32, and 53: PCB-Related Areas *	15.	SWMU 55: Battery Shop *
6.	SWMUs 4 and 54: Sand Blast Areas *	16.	SWMU 28: 90-Day Drum Storage Area *
7.	SWMU 46: Waste Oil Dumpsters/Storage Tanks *	17.	SWMU 29: Drum Storage Areas *
8.	SWMU 26: Defense Reutilization and Marketing Office (DRMO) Yard *	18.	SWMUs 2 and 30: Conveyance Ditches and Lagoons *
		19.	Lead-Based Paint

* Not shown on figure.

Prepared for:

Figure 3-2



BRAC Parcel Area

SCALE
0 700
FEET

N

NOTE: This figure includes AREE 12 underground storage tanks and AREE 13 above ground storage tanks. The installation inventory of tanks is organized by building number. As such, shading of the buildings associated with the tanks was avoided to eliminate confusion concerning the extent of the AREE.

SOURCE: Office of the Facilities Engineer, 1991 (modified)
Tooele Army Depot
Tooele, Utah

AREE Number	Description	AREE Number	Description
1a.	SWMU 49: Old Wastewater Distribution System – Current Stormwater Sewer System *	9.	SWMU 38: Industrial Wastewater Treatment Plant (IWTP) *
1b.	SWMU 49: Old Wastewater Distribution System – Old Connections to the New Wastewater System *	10.	Asbestos *
1c.	SWMU 49: Radiator Repair Facility *	11.	PCB-Containing Transformers *
2.	SWMU 47: Boiler Plant Blowdown Water *	12.	Underground Storage Tanks *
3.	SWMU 50: Compressor Condensate Drain *	13.	Above Ground Storage Tanks *
4.	SWMU 51: Chromic Acid/Alodine Drying Beds *	14.	SWMU 52: Drain Field and Disposal Trenches
5.	SWMUs 31, 32, and 53: PCB-Related Areas *	15.	SWMU 55: Battery Shop *
6.	SWMUs 4 and 54: Sand Blast Areas *	16.	SWMU 28: 90-Day Drum Storage Area *
7.	SWMU 46: Waste Oil Dumpsters/Storage Tanks *	17.	SWMU 29: Drum Storage Areas *
8.	SWMU 26: Defense Reutilization and Marketing Office (DRMO) Yard *	18.	SWMUs 2 and 30: Conveyance Ditches and Lagoons *
		19.	Lead-Based Paint

* Not shown on figure.

Prepared for:

U.S. Army Environmental Center

Date Revised: 09/26/94
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Figure 3-2

Areas Requiring Environmental Evaluation – Administration Area

Prepared by: AGEISS Environmental, Inc.

FINAL

producing operations delivered the effluent from the maintenance buildings to the stormwater sewer system (Advanced Sciences Inc., 1991). Up to 125,000 gallons of contaminated water flowed through these pipes each day. Some of the effluent was highly contaminated with chemicals such as acids, caustics, solvents, detergents, oils, grease, and heavy metals from industrial operations including vapor degreasing, metal cleaning, stripping, anodizing, electroplating, spray painting, sand blasting, and other various processes.

Prior to 1965, effluent was discharged through the pipelines into six unlined ditches on the east side of the OSLs along Avenues F, G, H, J, K, and L. The ditches drained toward the OIWL, which has been designated as SWMU 30, and five other locations. The OIWL, with the exception of associated conveyance ditches and three lagoons, is located outside of the BRAC parcel. Between 1965 and 1988, industrial wastewater and stormwater was delivered from the Maintenance and Supply Area buildings through this system to the IWL, designated as SWMU 2, which is located outside of the BRAC parcel. The IWL consisted of an unlined evaporation lagoon and four unlined conveyance ditches that tied into a main ditch, which extended approximately 1.5 miles from the outfalls near the Maintenance and Supply Area to the IWL. The four unlined ditches were located within the BRAC parcel along Avenues B, C, D, and E. The IWL and associated ditches were remediated in 1989. The CMF was constructed over what was formerly Avenues D and E. The conveyance ditches and lagoons that are within the BRAC parcel and are associated with SWMUs 2 and 30 are discussed in detail as AREE 18 in Section 3.18.

In the late-1980s, the IWTP was built and industrial wastewater disposal was transferred to the new system. The old drains were plugged so that effluent was delivered directly to the IWTP and no longer combined with stormwater. As such, stormwater currently drains from five outfalls located along Avenues F, G, H, J, and K (Figure 3-1). Currently, only stormwater is permitted to be drained through the old pipelines.

3.1.1.2 Old Connections to the New Wastewater System (1b)

AREE 1b is defined as the sections of the old wastewater distribution system that are now used as part of the new wastewater system, as explained below. During 1985 and 1986, a new wastewater treatment piping system was installed that collects effluent from waste-producing operations in the Maintenance and Supply Area and delivers it to the IWTP. New double-walled high-density polyethylene pipe was installed from the effluent-producing facilities in the Maintenance and Supply Area to the IWTP. The old system piping was detached from the stormwater sewer system and used to connect effluent-producing buildings into the new main wastewater line. The connecting lines, which are constructed of vintage single-walled cast-iron, steel, or concrete, were tied into the new system at various points along the main. Some connecting pipe lengths are reportedly in poor condition from years of wastewater transport. Buildings 600, 601, 602, 606, 609, 610, 611, 612, 620, and 637 have connecting pipe lengths of less than 10 feet. Building 615, on the contrary, has over 100 feet of old pipe remaining that is attached to the new wastewater main line (Kinsinger, 1993).

3.1.1.3 Radiator Repair Facility (1c)

AREE 1c, the Radiator Repair Facility is a structure within TEAD-N where military vehicle radiators are cleaned, repaired, and refurbished prior to being reinstalled in the overhauled vehicles (Figure 3-1). The structure also has three wash bays where vehicles are steam cleaned prior to repair, and a chemical line where vehicle parts are dipped into a series of

three tanks that are filled with sodium hydroxide for parts degreasing and corrosion removal. Containers such as 55-gallon drums are also triple rinsed in the steam cleaning area and stored outside. The radiator repair section has a series of buffers, grinders, solder equipment, and other associated equipment used for radiator repair. The building is equipped with a lead collection system for lead dust collection. The dust is delivered under vacuum to a cyclone separator outside of the structure where the dust falls out into a collection barrel. The barrels are sealed when full and delivered to the 90-Day Drum Storage Area to the south of the Maintenance and Supply Area. Building 609 has been condemned, and operations are soon to be moved to Building 615. All effluent from the structure is designed to drain into the IWTP system through a series of sumps and catch basins within and around the structure. The Radiator Repair Facility has recently been included with the old wastewater distribution system as part of SWMU 49. As such, this facility is subject to the conditions for corrective action in the RCRA PCP (McFarland, 1994b).

3.1.2 Known and Suspected Releases

There has been sampling of drainage ditches associated with AREEs 1a and 1b either as part of the SWMU 2 groundwater assessment work or the Phase II RFI for known-release SWMUs. Subsurface soil, sludge, and groundwater samples have been shown to contain numerous contaminants thought to have originated in the wastewater stream that discharged to the IWL (SEC Donahue, 1993). Based on these analytical results and contamination identified at the IWL under the RFI, the outfall area along the OSLs is suspect, as the same system delivered relatively the same type of effluent to both areas. Since the same underground system now delivers stormwater to outfalls along the OSLs at Avenues F, G, H, J, and K, it is suspected that residual contamination from years of wastewater transport has potentially contaminated the soils at the outfalls.

No evidence was found of known releases or spills from the stormwater drainage system. However, it is known that the pipelines are reportedly in poor condition from years of wastewater transport. Based on the fact that groundwater is contaminated below the industrial area and upgradient from the system outfalls, pipe leakage is of potential concern. There is a possibility when the system was in use for wastewater transport that industrial wastewater was released from potentially damaged portions of the pipelines. Likewise, the connecting pipes that comprise AREE 1b are old, and in some cases, such as those that connect Building 637 to the main line, show visible signs of etching from years of wastewater transport. There is, however, no documented release of contaminants from the connecting pipe sections.

Although no known releases have been documented related to either AREE 1a or 1b, samples collected from the wastewater stream in 1982 contained several VOCs and phenolic compounds. Subsurface soil, sludge, and groundwater samples have been shown to contain numerous contaminants thought to have originated in the wastewater stream (SEC Donahue, 1993).

AREE 1c, the Radiator Repair Facility, has no known releases associated with the structure. However, visual observations conducted during the ENPA site inspection of the building and its operations indicate that contaminant releases to the environment are likely due to the nature of operations at this building. For example, overspray from steam cleaning operations, radiator repair operations, caustic dip tank usage, etc., could potentially effect the environment. Also, Building 609 effluent is currently transported to the IWTP via the new wastewater transport system. As described in AREE 1b however, the old system piping from

this building was used to attach it to the current wastewater system and is suspect as indicated in the AREE 1b discussions.

3.1.3 Conclusions

From information gathered concerning the current stormwater sewer system, AREE 1a, it can be concluded that environmental contamination resulting from this system is likely. Based on the fact that groundwater is contaminated below the industrial area and upgradient from the system outfalls, pipe leakage is of potential concern. There is a possibility when the system was in use for wastewater transport that industrial wastewater was released from potentially damaged portions of the pipelines. Historically, highly contaminated effluent flowed through the pipes and drained toward the IWL, as well as, into the OSL area west of the maintenance buildings.

Additionally, the pipes associated with AREE 1b are old and constructed of single-walled concrete and steel. Therefore, it is also possible that environmental contamination has resulted from leakage associated with deteriorating or damaged portions of the system. Since sections of these old pipes are now in use as part of the new industrial wastewater system, this concern applies to the active system as well.

Finally, it can be concluded that operations within Building 609 (AREE 1c) are a potential source of contamination to the environment. Steam cleaning, caustic dip tanks, and general radiator repair are all sources of potential environmental contamination. All of these operations are somewhat contained within the structure through the use of pollution controls such as ventilation systems and drainage to the IWTP; however, visual observations and the inherent nature of operations within this structure indicate that the potential for contaminant releases exists.

3.1.4 Recommendations

A site investigation is recommended to determine the environmental impacts of all three portions of this AREE. Some parts of this system have been investigated as part of the Phase II RFI for known-release SWMUs. The stormwater drainage system should be investigated to determine if historical use of the system for wastewater transport has resulted in releases to the environment. Also, the radiator repair system should be investigated to determine if the operations within this structure have caused environmental contamination. Groundwater monitoring need not be implemented for this AREE, because groundwater contamination has already been characterized extensively in the area of the BRAC parcel, a groundwater monitoring program is already in place, and a large scale treatment system for VOCs is operational. However, the following specific recommendations are made for AREE 1:

1. Sample surface and subsurface soil at the outfalls along Avenues F, G, H, J, and K to assess the impact of current and historical discharges through the underground piping. Analyses should include VOCs, semivolatile organic compounds (SVOCs) excluding PCBs and pesticides, and metals.

2. Sample discharge water to determine the nature of any potential residual contamination remaining in the system. Analyses should include VOCs, SVOCs, and metals.

3. Inspect the integrity of the piping to determine if there are areas of severe damage. If such areas are detected, then subsurface soil sampling should be done along side and below the pipes in the areas of noted damage.

4. Conduct a limited site investigation of the Radiator Repair Facility (Building 609) to determine if operations within the structure such as radiator repair, steam cleaning, and caustic dip tank usage have released contamination to the surrounding area. Sampling of surface and subsurface soils at select locations surrounding the facility is recommended. Analyses should include VOCs, SVOCs, and metals.

5. Since the Radiator Repair Facility is scheduled for demolition in Fiscal Year 1997, the structural debris would need to be sampled for TCLP to determine the proper disposal method. Treatment of the debris according to the RCRA land disposal regulations may be required.

3.2 SWMU 47: BOILER PLANT BLOWDOWN WATER (AREE 2)

3.2.1 Description

AREE 2, Boiler Plant Blowdown Water (SWMU 47), consists of four locations within the Maintenance and Supply Area, and includes Buildings 606, 610, 637, and 691 (Figure 3-1). Each of these buildings contains a boiler that generates steam. During boiler plant maintenance, the boiler is back-flushed during a blowdown which produces small concentrations of blowdown water. Tannic acid, an organic compound, is used to reduce scale buildup inside the boiler during this process and gives the blowdown water a reddish color. These boilers and the associated blowdown systems have been in operation since the initial construction of the buildings, most of which were built during the 1940s. The boiler blowdown water was previously discharged from the boilers inside the buildings onto the ground. All boiler effluent from Buildings 606, 610, and 637 is now discharged to a drain system leading to the IWTP (MW, 1993).

At Building 691, effluent from multiple sources including the building boiler, paint booth area, and interior and exterior drains is discharged through an oil/water separator and into a culvert to a point approximately 1,000 to 1,200 feet west of the building. From there it flows along a small open ditch westward, most likely infiltrating into the soil. The boiler within this structure produces steam that is used only by this structure. The building was not incorporated into the IWTP system, because it was not economically feasible to install a main line to this portion of the Maintenance and Supply Area for this structure alone (Sullivan, 1993).

3.2.2 Known and Suspected Releases

During the Phase I RFI, one water sample was collected from the boiler blowdown sump outside of Building 610. Analysis revealed the presence of arsenic, copper, iron, lead, manganese, and zinc; however, none of the detections were above proposed health-based action levels or promulgated drinking water standards. Concentrations of the VOCs acetone and methylene chloride and three phenol compounds were also detected in this water sample. Of these organic compounds, only methylene chloride exceeded the proposed regulatory action level.

The remainder of the samples taken during the Phase I RFI (one surface water and three soil/sediment samples) were obtained from soil nearby the blowdown water runoff area at Building 610. Elevated levels of several metals were found, although none exceeded any established health-based action criteria. Total Residual Petroleum Hydrocarbons (TRPH) were found in all of the soil/sediment samples collected at SWMU 47 (MW, 1993).

3.2.3 Conclusions

Based on data collected during the Phase I RFI, there is evidence that boiler blowdown activities have released metals and petroleum compounds to the environment through contamination of soils. Boilers located at Buildings 606, 610, and 637 are now connected to the IWTP and as such are not currently contaminating the environment with boiler blowdown water. Building 691, however, is currently not attached to the IWTP and as such drains boiler blowdown through an oil/water separator and into a nearby drainage ditch.

3.2.4 Recommendations

Based on contamination detected during the Phase I RFI, it is recommended that further evaluation of environmental contamination from past effluent discharging activities within SWMU 47 be evaluated as is currently being accomplished under the Phase II RFI. In addition, Building 691 needs further investigation to determine if effluent draining from the building into a nearby ditch is contaminating the environment. Soil samples should be collected from the drainage ditch and analyzed for VOCs, SVOCs, and metals. If Building 691 effluent is determined to be contaminating nearby soil, then appropriate steps need to be taken to alleviate the problem (MW, 1993).

3.3 SWMU 50: COMPRESSOR CONDENSATE DRAIN (AREE 3)

3.3.1 Description

The compressor condensate drain in Building 619 (Figure 3-1) has not been previously investigated. The drain was discovered during interviews with TEAD-N personnel during the ENPA site visit October 25 through 28, 1993. Little specific information is known about the drain at this time except that compressor condensate in Building 619 is dissipated through a perforated subsurface drain. Visual inspection of the compressor room at Building 619 revealed a drain pipe that originated at the compressor room and led to a 55-gallon drum that appeared to be buried to the halfway point. The pipe entered the drum from the top and drained into it. The drum was buried in a gravel sump that appeared oil stained. The buried portion of the drum was reportedly perforated to dissipate the effluent.

3.3.2 Known and Suspected Releases

There has been no investigation of the compressor condensate drain at Building 619. As such, there are not known confirmed contaminant releases. However, according to installation personnel, it is not uncommon for lubricating oils to be present in the condensate (Kinsinger, 1993). Visual inspection of the drain at Building 619 revealed oil staining around the drainage area and indicated that releases associated with the use of this drain is likely.

3.3.3 Conclusions

The potential exists that surface and subsurface soil could be contaminated from the compressor effluent that potentially contains lubricating oil from the compressor equipment. Information concerning this is incomplete, and visual inspection revealed only one suspect drainage system.

3.3.4 Recommendations

A site investigation is recommended. Since the October 1993 ENPA site visits, the compressor condensate drain at Building 619 has been designated SWMU 50 and will be investigated under the ongoing RFI. It is recommended that samples of the effluent and the surrounding surface and subsurface soil be obtained and analyzed for VOCs and SVOCs.

3.4 SWMU 51: CHROMIC ACID/ALODINE DRYING BEDS (AREE 4)

3.4.1 Description

A group of four concrete pads marked by a placard with the number 623 are located slightly southeast of the CMF (Figure 3-1). The pads are configured in a square pattern with two of them elevated approximately 4 feet above the others. The two elevated pads have a trench cut into the center of them that appears to have been used to drain liquid from the pads. The two lower pads are bermed so that liquid could be contained. The ground between the upper and lower pads is steeply sloped. Interviews with several longtime TEAD-N employees revealed little about past activities at the site. Some indicated that engines and radiators were flushed at this location. Subsequent to these interviews and discussions, real property historical records were reviewed and it was discovered that in the 1970s, these pads were used as drying beds for the disposal of chromic acid and alodine wastes generated in the Maintenance and Supply Area (Oliver, 1994).

3.4.2 Known or Suspected Releases

No known or suspected releases have been reported at this location.

3.4.3 Conclusions

Given the historical use and configuration of the drying beds, contamination of underlying soil is likely.

3.4.4 Recommendations

A site investigation is recommended. Since the October 1993 ENPA site visits, the chromic acid/alodine drying beds have been designated SWMU 51 and will be subject to investigation under the ongoing RFI. Collection of a limited number of surface and subsurface soil samples between the concrete pads is recommended to determine if past activities may have released contaminants to the environment. These samples should be analyzed for VOCs, SVOCs, and metals.

3.5 SWMUs 31, 32, AND 53: PCB-RELATED AREAS (AREE 5)

3.5.1 Description

This AREE includes the following three PCB-related areas that are located within the BRAC parcel: the Former Transformer Boxing Area (SWMU 31); the PCB Spill Site (SWMU 32); and the soils outside Buildings 659 and 679 (SWMU 53). Two other PCB-related SWMUs that comprise OU5 include the Former Transformer Storage Area (SWMU 17) and PCB-Storage Building (SWMU 33). These two SWMUs are being considered for no further action under CERCLA, and as such, are not designated as AREEs. These two SWMUs are discussed briefly in Section 3.20 (non-AREEs).

The first area within OU4 is the Former Transformer Boxing Site (SWMU 31) located at OSL 680 (Figure 3-1). OSL 680 was used from 1979 to 1980 for the temporary storage of transformers that were once stored at OSL 675B. From OSL 675B, the transformers were sent for off-site disposal or they were transferred to Building 659.

The second area within OU4 is the PCB Spill Site (SWMU 32), which is located at the southern corner of OSL 665D (Figure 3-1). In October of 1980, a transformer oil spill occurred at the southwestern corner of the lot. Two transformers, reportedly containing a total of 1,000 gallons of PCB-contaminated oil were punctured with a fork-lift blade during transformer removal operations. The spill occurred on the unpaved ground surface, and the spill area was reportedly less than one-half acre. Cleanup involved excavating oil-saturated soils, containerizing the soils in 55-gallon drums, and properly disposing of these drums. Some of the oil leaking from the transformers was collected and was also placed in 55-gallon drums for disposal. Approximately 440 55-gallon drums of contaminated soil and 18 drums of contaminated oil were removed. The excavation area was backfilled with imported fill material. Lot 665D is currently used for vehicle-related equipment storage (REI, 1994a).

The third area includes potentially-contaminated soil located outside of Buildings 659 and 679 (SWMU 53) (USAEC, 1994). These areas comprise a newly designated area that has been declared a SWMU by the State of Utah. Concern has been expressed as to the adequacy of PCB spill clean-up at Building 679 and possible releases in the outdoor loading area of Building 659 (Oliver, 1994).

3.5.2 Known and Suspected Releases

Previous investigations have indicated that no known or suspected releases of contaminants have occurred at the Former Transformer Boxing Area (SWMU 31). Existing analytical results from surface soil composite samples indicate that PCBs are present at the PCB Spill Site (SWMU 32) in trace amounts only. The PCB Spill Site has been remediated as discussed in Section 3.5.1, and a site investigation was conducted in 1988. Seventeen discrete surface soil samples were collected from an area measuring approximately 45 feet by 50 feet. These samples were composited into five samples. Aroclor 1260 was detected in all five samples, ranging from 0.0764 to 0.2140 micrograms per gram (µg/g). These results are below EPA guidelines and the Toxic Substances Control Act (TSCA) cleanup standard for nonrestricted areas, however (REI, 1994a).

No information regarding known or suspected releases at the contaminated soils locations at Buildings 659 and 679 could be found during the ENPA investigation. According to Larry

Fisher, TEAD-N Environmental Engineer, no record was available at the TEAD-N Environmental Office concerning these sites.

3.5.3 Conclusions

Based on the results of a risk assessment conducted at OU4 during the RI using available data, no significant threat to human health or the environment exists at the PCB Spill Site (SWMU 32); however, additional data must be collected for the risk evaluation required by the RI. Additional data is also required under CERCLA for the Former Transformer Boxing Site (SWMU 31) and for the newly designated areas outside Buildings 659 and 679 (SWMU 53). Thus, these OU4 SWMUs are classified as an AREE, because they are being retained for further action under the CERCLA and RCRA programs.

3.5.4 Recommendations

Further sampling at SWMUs 31, 32, and 53 is recommended as per requirements of the CERCLA and RCRA programs only.

3.6 SWMUs 4 AND 54: SAND BLAST AREAS (AREE 6)

3.6.1 Description

There are three sand blast areas within the Maintenance and Supply Area of TEAD-N that are included in SWMU 4. They are located in Buildings 600, 615, and 617 (Figure 3-1). Sand blast media within these areas is reused until it loses its effectiveness. The spent media have the consistency of a fine dust and are collected for temporary storage in dumpsters prior to removal by a hazardous waste contractor for off-site disposal. There are three types of sand blast media used at TEAD-N, including steel grit, ground walnut shells, and glass beads. The used media are directed into sealed dumpsters that lie outside the buildings through exhaust ventilation systems and particle size separators. The dumpsters are placed on concrete slabs that are surrounded by asphalt parking lots and roadways, and there is little or no exposed soil in the immediate vicinity of these dumpsters.

Samples of sand blast media have been collected and analyzed by the TEAD Environmental Management Office. Sampling results indicated that the spent steel dust contained barium, cadmium, lead, and nickel, but no concentrations were above the threshold for characterizing a waste as hazardous according to the extraction procedure (EP) Toxicity analysis. The spent walnut dust also contained barium, cadmium, chromium, and lead. Total lead and chromium concentrations were 17,000 and 3,000 µg/g, respectively. EP Toxicity levels of chromium in the walnut dust exceeded the threshold for characterizing a waste as hazardous. No analytical results of the spent glass beads were available.

During the ENPA site visits October 12 through 15 and October 25 through 28, 1993, other areas were identified where sand blast operations occurred in the past. These included areas in Buildings 603, 604, 612, 613, 637, and 647. Most of these operations were of small scale and were localized. Information concerning containment practices was largely unavailable, because most of these areas have since been abandoned or have been converted to other uses.

3.6.2 Known and Suspected Releases

During the Phase I RFI, two samples were taken from near each of the spent sand blast media collection points (six total) at Buildings 600, 615, and 617. Nearby surface soils and surface water runoff pathways were sampled and analyzed for VOCs, SVOCs, and metals. Based upon the results of these samples, it appears that contaminants have been released to the surface soils in the vicinity of the spent sand blast media collection points. Concentrations of metals above background levels were detected in all six of the samples collected. Organic compounds were also present in several of the samples collected. VOCs were limited to one detection of chloroform at 0.0012 µg/g, which is well below the proposed Subpart S action level of 100 µg/g. SVOCs were detected in five of six soil samples. These were mostly polyaromatic hydrocarbons which are likely constituents in the paints present in the spent sand blast media. Concentrations of the polyaromatic hydrocarbons ranged from 0.2 to 4 µg/g (MW, 1993).

3.6.3 Conclusions

It can be concluded from Phase I RFI sampling results that contamination of the environment has occurred at Buildings 600, 615, and 617 due to the sand blasting operations. It is also suspected that similar releases may have occurred at Buildings 603, 604, 612, 613, 637, and 647 from past sand blast operations at these locations.

3.6.4 Recommendations

It is recommended that Buildings 600, 615, and 617 be investigated further as is currently being done under the Phase II RFI. Based on the results of the ENPA site visits, it is also recommended that all past sand blasting media collection points be investigated for similar releases to the environment. These recently discovered sand blast areas have been designated SWMU 54 and will be investigated under the ongoing RFI. Sampling activities should include analyses for VOCs, SVOCs, and metals.

3.7 SWMU 46: WASTE OIL DUMPSTERS/STORAGE TANKS (AREE 7)

3.7.1 Description

Used oil dumpsters/storage tanks are present at seven locations within the BRAC parcel. These locations include Buildings 600, 602, 607, 611, 619, 620, 637, and 691 (Figure 3-1). Used oil from vehicle maintenance operations in these buildings is stored in dumpsters or holding tanks at each of these buildings. The used oil is routinely pumped from the dumpsters for off-site disposal by an oil recycling contractor. Oil stains surrounding the dumpsters and tanks were noted during the ENPA site inspections.

3.7.2 Known and Suspected Releases

Based on results of the Phase I RFI sampling program, it appears that TRPH has been released to the surface and shallow subsurface soils at virtually all of the used oil dumpster locations sampled. Concentrations of TRPH in the surface soil samples ranged from 32.3 to 26,600 µg/g. The results of the samples collected from 1 feet were similar, with concentrations of TRPH being present in all samples and ranging from 35 to 50,700 µg/g. Some of the contamination at Building 637 may be the result of a large diesel oil spill that

occurred in the vicinity of the northeast corner of the structure. An inspection of the underground waste oil storage tank outside of Building 637 revealed indications of spillage around the tank (MW, 1993).

3.7.3 Conclusions

Based on the results of the Phase I RFI sampling and visual inspection during the ENPA site inspections, it is apparent that waste oil handling practices at the used oil dumpsters have released petroleum hydrocarbons to the nearby surface and shallow subsurface soils.

3.7.4 Recommendations

It is recommended that SWMU 46 be investigated further as is currently being done under the Phase II RFI. Also, improved waste oil handling techniques should be implemented to prevent further contamination.

3.8 SWMU 26: DEFENSE REUTILIZATION AND MARKETING OFFICE AREA (AREE 8)

3.8.1 Description

The DRMO is a 60-acre fenced area located adjacent to the eastern side of the BRAC parcel warehouses that consists of an open storage yard and several steel buildings (Figure 3-1). The DRMO primarily coordinates the sale, recycling, and disposal of TEAD-N refuse, and handles the contractual aspects of hazardous waste disposal for TEAD. The area is used for temporary storage of surplus material (no longer in use at the installation), prior to sale. The DRMO receives items from all of TEAD-N, including the Utah National Guard, located in the Administration Area. According to Mr. Red Ridder, the DRMO escort during the AGEISS site visits, the TEAD-N DRMO also serves the Tooele Army Depot - South Area (TEAD-S), the Eagle Test Range, and the Dugway Proving Ground. The DRMO yard is provided with rail and truck access.

A wide variety of items are present in large quantities at the DRMO. Abundant items observed at the DRMO during the site visits included: engines; generators; compressors; furniture; office machines; computer equipment; scientific instruments; inert ordnance; a variety of vehicles; vehicle and helicopter parts; miscellaneous dry goods and other similar saleable items; and steel and brass shell casings. According to Mr. Ridder, no unexploded ordnance (UXO), including chemical munitions from TEAD-S operations, are stored at the DRMO.

Large quantities of plastic and metal 55-gallon drums were observed at the DRMO; however, the vast majority of the drums were empty, and those which were full contained small pieces of scrap metals or similar nonliquid salvage materials. All drums reportedly arrive at the DRMO after they have been emptied and cleaned. Batteries are no longer stored at the DRMO, as these items are now recycled in the Maintenance and Supply Area on-post. One large transformer, reportedly free of PCBs, was observed at the DRMO during the site visits. According to Mr. Ridder, transformers are rarely sent through the DRMO. Mr. Ridder also stated that transformers which contain PCBs are not sent to the DRMO.

Unused hazardous chemicals (such as paints, gear oils, acids, etc.) which are no longer required or which were not used prior to their recommended shelf life are also present at the DRMO. These hazardous materials, which cannot be sold and therefore will never be used, are stored as hazardous waste in Building 2025. However, if these hazardous materials can be sold for use according to their intended purpose, they are not considered waste, and are stored as hazardous materials in Building 2003 at the DRMO. Building 2001 was also reportedly used for hazardous materials storage in the past; however, during the site visits, only nonhazardous materials were observed in this structure. Hazardous chemical storage at these structures appeared to be conducted in accordance with the TEAD Environmental Office procedures. Evidence of contamination from these hazardous chemicals was not observed during the site visits.

3.8.2 Known and Suspected Releases

According to an interpretation of a 1959 aerial photograph obtained from the Final Phase I RCRA Facilities Investigation Report (MW, 1993), the DRMO became active sometime between 1953 and 1959. The site is described in the interpretation as a storage yard with noticeable ground staining, debris piles, and container storage. In 1966, the site had been graded and drum storage and ground staining were observed.

Small areas of staining were identified at the DRMO during the ENPA site visits. Some sampling has previously been conducted throughout the vast DRMO yard. However, large quantities of salvage materials are moved in and out of the DRMO every day, therefore conditions and potential areas of contamination are ever changing. Residual fluids in engines, generators, compressors, and similar items stored in large quantities at the DRMO, have the potential to contaminate the underlying ground surface. Significant, large-scale contamination of this nature was not observed on-site, however.

A former burn area, now used for open storage, was observed during the site visits north of the warehouses at the DRMO. According to Mr. Louis Brems, the Chief of DRMO operations, this area was used in the past to burn rubber from steel tank tracks to facilitate the sale of the scrap steel. Sampling has reportedly occurred in this vicinity but no analytical results were provided.

Poor housekeeping resulting in localized ground stains was observed in some areas of the DRMO during the site visits. For example, prevalent staining was noted on the ground surface at waste oil collection points located outside of several DRMO saleable items warehouses. Oil stains were also observed on the concrete floors of these and other storage buildings, which reportedly resulted in leaks from improperly functioning forklifts. Additional staining was observed beneath many of the above ground fuel oil storage tanks associated with numerous DRMO structures. During the site visit, staining was also observed along the railroad tracks in the northern portion of the DRMO. Mr. Brems stated that some small diesel and oil spills had been reported at the DRMO over time.

Results of the Phase I RFI sampling program indicated that various contaminants have been released to the surface and shallow subsurface soils at the DRMO. Contaminants detected included acetone, trichlorofluoromethane, benzo(a)anthracene, benzo(a)pyrene, benzo(k) fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, fluoranthene, phenanthrene, pyrene, lead, cadmium, and cyanide.

3.8.3 Conclusions

Based on the results of the Phase I RFI sampling program, it appears that various contaminants have been released to the surface and shallow subsurface soils at the DRMO. Review of information gathered during the ENPA site visits also indicates that activities conducted at the DRMO have in the past, and continue to have the potential, to release contaminants to the environment.

3.8.4 Recommendations

Prior to excessing the property, all equipment and debris should be removed. The structures should be cleaned and decontaminated according to the installation's procedures for closing heavy industrial areas. Further sampling of surface and subsurface soils is recommended as part of the Phase II RFI. Analyses should include VOCs, SVOCs, and metals.

3.9 SWMU 38: INDUSTRIAL WASTEWATER TREATMENT PLANT (AREE 9)

3.9.1 Description

The IWTP is located within the southwest corner of the BRAC parcel (Figure 3-1). The majority of this facility was built in 1987; however, an additional structure, Building 716, is presently under construction. The IWTP began operations in November 1988 with a design capacity of 160,000 gpd. The facility treats an average of approximately 116,000 gpd of wastewater. Of this total, an average of 103,000 gpd of wastewater is recycled, and the remaining wastewater is discharged to the Tooele publicly-owned treatment works. Several structures and holding tanks are present at the IWTP complex. Structures at the IWTP are used for storage, housing for inflow and outflow pumps, and various process equipment. One small office structure was also noted at the IWTP during the site visits, as were four large-capacity bermed above ground tanks for storage of influent and effluent. Influent storage tanks are used to hold water flowing into the facility in the uncommon event that inflow exceeds the design capacity of the IWTP. Buildings 713 (process equipment) and 714 (materials storage) were constructed by contractors for their use. Process equipment to be operated by TEAD-N Facilities personnel is presently being installed in newly-constructed Building 716. Operations in Building 716 will replace all activities currently performed by contractors at the IWTP. Therefore, once all of the new process equipment is online, contractor operations at the IWTP will cease, and Buildings 713 and 714 will be removed from the area.

Water is treated at the IWTP by a variety of processes. Treatment at the IWTP includes air strippers for VOCs, a flocculator and clarifier for settling out metals, sand filters for filtering solids, and granular activated carbon (GAC) to remove VOCs and SVOCs (MW, 1993).

If a spill or similar unintentional release to the wastewater collection system is reported to Mr. Sullivan, IWTP processes will be modified to the extent necessary to treat the influent to the required extent. Mr. Sullivan stated that such releases are less likely than in the past, as an effort has been made throughout the TEAD-N manufacturing area to replace industrial chemicals with less hazardous substitutes. Following treatment to the desired concentrations, water at the IWTP is either recycled back through the Maintenance and Supply Area or pumped to the Tooele public water treatment facility.

Good housekeeping practices are presently in effect at the IWTP, which was observed to be a modern, clean facility during the site visits.

3.9.2 Known and Suspected Releases

During approximately a 1-year period when the facility first opened, shipping containers in which spent GAC was stored were left uncovered, and blown onto nearby surface soils along the west side of the facility. During the Phase I RFI, samples were collected and analyzed for VOCs, SVOCs, metals, and TCLP. Based on the results of the Phase I RFI sampling program, it appears that low levels of several metals and SVOCs have been released to the surface soils on the west side of the facility. Metals detected include cadmium, lead, and mercury. SVOCs detected include several phenols, dodecane, several polynuclear aromatic hydrocarbons, and numerous tentatively identified compounds. The presence of these compounds is consistent with those present in the spent GAC, which is the most likely source of the contamination in the nearby soils. None of the detected analytes in the soil samples exceed proposed Subpart S soil action levels where they have been established (MW, 1993).

3.9.3 Conclusions

Based on the results of the Phase I RFI sampling, it appears that several contaminants, mainly SVOCs, have been released to the surface soils in the vicinity of the spent GAC containers. The containers are no longer left open; however, so the source of contamination no longer exists.

3.9.4 Recommendations

Based on the results of the Phase I RFI sampling program, it is recommended that SWMU 38 be included for further soil sampling and evaluation as is currently being done under the Phase II RFI. Recommended analyses include VOCs, SVOCs, and metals.

3.10 ASBESTOS (AREE 10)

3.10.1 Description

In February 1991, an initial asbestos survey of all occupied buildings was conducted at TEAD. The results of the entire survey are provided in Appendix D and indicate that friable and nonfriable asbestos-containing material (ACM) is present at various locations throughout the facility. An additional survey was conducted in June 1992, in which abatement activities were noted as well as additional sampling that had occurred. In this survey report, it was noted that partial abatement of Building 611 (within the BRAC parcel) was completed, including removal of friable pipe insulation. At the time of the ENPA investigation, a complete record of abatement activities was unavailable (Pickering, 1992a). In 1992, an asbestos management plan was developed by Pickering Environmental Consultants, Inc. that was enacted to address unabated asbestos found during the asbestos survey. The management plan was developed pursuant to the Asbestos Hazard Emergency Response Act of 1986 to minimize exposure to asbestos and assist the facility in complying with the federal regulations (Pickering, 1992b).

3.10.2 Known and Suspected Releases

Although friable and nonfriable ACM is known to exist within the BRAC parcel, a known friable release of asbestos fibers has not been documented. No friable ACM were noted during the visual inspections of the structures in the BRAC parcel.

3.10.3 Conclusions

Asbestos surveys have been conducted at various occupied areas throughout TEAD-N. ACM was found at various locations with heavier concentrations occurring in mechanical rooms of maintenance area structures within the BRAC parcel. It can be concluded that friable and nonfriable ACM exist within the BRAC parcel. An Asbestos Management Plan developed by Pickering Environmental Consultants, Inc. (1992b) has been implemented to address the asbestos issue.

3.10.4 Recommendations

It is recommended that the Asbestos Management Plan for TEAD be fully implemented and that known exposed friable asbestos be removed or encapsulated. Asbestos surveys should be continued and include every structure in the BRAC parcel, according to the Army's Asbestos Policy Guidance for Army BRAC Properties. Complete documentation of the location and quantity of asbestos in all buildings within the BRAC parcel is recommended.

3.11 PCB-CONTAINING TRANSFORMERS (AREE 11)

3.11.1 Description

PCB-containing transformers are in use within the BRAC parcel. The installation conducts an annual inspection of all PCB-containing transformers. The results of the 1993 inspection and a listing of all PCB-containing transformers are provided in Appendix E. During the review of this report, it was noted that none of the leaking transformers which contained PCBs in excess of 50 parts per million (ppm) identified during the 1993 Audit inspection were located in the BRAC parcel.

3.11.2 Known and Suspected Releases

There are no known or suspected releases related to this AREE.

3.11.3 Conclusions

It can be concluded that PCB-containing transformers exist within the BRAC parcel. There are, however, no known or suspected releases associated with this AREE at this time. An annual inspection program is currently being performed.

3.11.4 Recommendations

It is recommended that the installation continue the annual PCB-containing transformer inspection program.

3.12 UNDERGROUND STORAGE TANKS (AREE 12)

3.12.1 Description

Review of information that was available at the time of the site visits indicated that there are 21 regulated USTs at TEAD-N. Of these, it appears that 13 of them are located within the BRAC parcel. Moreover, there are in excess of 100 underground heating oil tanks at TEAD-N. Although these are excluded from State and Federal regulations, the Army does not recognize the exclusion as per Army Regulation 200-1 (Environmental Programs Branch, 1991). An inventory of the USTs at TEAD-N is provided in Appendix F.

According to the UST briefing document prepared for the TEAD Commander that summarizes the regulated UST plan, a release detection program was implemented on the TEAD in 1989. Following guidelines stated in Federal Regulations, tanks installed prior to 1965 were included in the program first, followed by a gradual inclusion of the rest of the tanks over the next 4 years. From 1991 to 1992, all State and Federal regulated tanks and the Emergency Generator were tightness tested and registered with the State of Utah for the Petroleum Storage Tank Fund. Although many of the tanks passed the tightness tests, not all of the piping passed. As such, there is still a leak potential. According to Larry McFarland, TEAD-N Environmental Coordinator, when an UST fails tightness testing, it is designated for closure and subsequent removal.

3.12.2 Known and Suspected Releases

During the October 1993 site visits Mr. McFarland indicated that one tank at the Building 629 fueling station and one tank at Building 637 were potentially leaking as determined from tightness test failures. Since then, the tank at Building 629 has been removed, with removal of contaminated soil in progress. The tank at Building 637 has been placed under State temporary closure and will be removed by the end of the year. No other information was available concerning known or suspected releases associated with USTs.

3.12.3 Conclusions

Based on the results of tank testing and product inventorying, the potential for releases from USTs within the BRAC parcel exists. The magnitude of such releases is unknown at this time, however.

3.12.4 Recommendations

It is recommended that tank testing and other procedures outlined in the UST plan be continued, and that the installation maintain USTs in accordance with applicable Federal, State and local regulations. In addition, closure of all USTs no longer in use, including those containing heating oil, is also recommended. As part of a closure program, the former residential area once located in the Administration Area south of the main entrance road should be investigated (i.e., geophysical survey) to ensure all heating oil tanks were removed when the residential area was demolished.

3.13 ABOVE GROUND STORAGE TANKS (AREE 13)

3.13.1 Description

There are ASTs at over 100 locations within the BRAC parcel. The contents of these tanks includes propane, heating oil, used oil, solvents, antifreeze, diesel fuel, and various industrial wastes that are building-specific tanks approximately 500 gallons in volume. The majority of these are used for heating oil storage. Many are in deteriorating condition with indications of corrosion and potential leakage. Most do not have containment systems around them and many have indications of staining from overfilling, etc. Tank 582 is a large petroleum tank located within the BRAC parcel at the east side of the Maintenance and Supply Area. The tank is bermed with catch basins adjacent to it for product containment in the event of a spill. There were some indications of spillage such as staining at the tanker truck filling platform adjacent to the tank. An inventory of the ASTs within the BRAC parcel is provided as Appendix G of this report. No comprehensive management plan concerning the tanks was found to exist during the project investigation.

3.13.2 Known and Suspected Releases

There are no known releases associated with the ASTs; however, it is possible that a release could have occurred from overfilling or could occur in the future from tank leakage due to contamination. There were indications of staining from overfilling at numerous locations.

3.13.3 Conclusions

Although there are over 100 ASTs within the BRAC parcel, no comprehensive management plan was found that addresses them. Many of the tanks are in deteriorating condition, and there were indications of spillage as evidenced by ground staining around them.

3.13.4 Recommendations

It is recommended that a comprehensive AST management plan be developed and implemented by the installation and that the installation maintain compliance with applicable AST regulations.

3.14 SWMU 52: DRAIN FIELD AND DISPOSAL TRENCHES (AREE 14)

3.14.1 Description

As part of the ENPA process, an aerial photographic site analysis was performed which identified a drain field, surface impoundment, and disposal trenches in the TEAD-N Administrative Area (ERI, 1993). No information has been found which identified the past activities in these areas. A walk-over of these areas was performed by TEAD-N personnel following the review of the aerial photographs to further identify these disposal features. The drain field and disposal trenches were located, but the surface impoundment could not be found. Based on the results of this surface observation, it appears that the disposal trenches were primarily used for construction debris (Oliver, 1994).

3.14.2 Known or Suspected Releases

No known or suspected releases have been reported at this location.

3.14.3 Conclusions

There are no indications of contamination at this site based on available information. However, based on the aerial photographic site analysis, it appears that disposal activities have occurred at these locations. As such, further investigation is warranted.

3.14.4 Recommendations

A site investigation of the drain field and disposal trenches is recommended. Since the October 1993 ENPA site visits, the drain field and disposal trenches have been designated as SWMU 52 and will be investigated under the ongoing RFI. Soil samples should be collected from several locations at both the drain field and disposal trenches. The samples should be analyzed for VOCs, SVOCs, and metals. It is also recommended that a geophysical survey of the disposal trenches be conducted.

3.15 SWMU 55: BATTERY SHOP (AREE 15)

3.15.1 Description

On April 28, 1994, a site visit of TEAD-N was conducted by USDEQ-DSHW in which discussions with TEAD-N employees were conducted concerning historical operations in Building 618. During these discussions, it was indicated by the TEAD-N employees that Building 618, which is currently a cafeteria, was formerly a battery and plating shop. Subsequent to these discussions, real property historical records were reviewed. It was confirmed from this review that the building has been used as a battery shop in the past.

3.15.2 Known and Suspected Releases

No known or suspected releases have been reported at this location.

3.15.3 Conclusions

There are no indications of contamination at this site based on available information. However, based on the historical records search, it appears that battery and plating shop operations have occurred at Building 618 in the past which are worthy of investigation.

3.15.4 Recommendations

A site investigation of Building 618 is recommended. Based on the historical records search, the building has been designated SWMU 55 and will be investigated under the ongoing RFI (Oliver, 1994). At a minimum, soil samples should be collected from the area surrounding the building and analyzed for metals contamination. Also, a detailed background search for information about disposal practices from the battery and plating operations should be conducted.

3.16 SWMU 28: 90-DAY DRUM STORAGE AREA (AREE 16)

3.16.1 Description

AREE 16, the 90-Day Drum Storage Area (SWMU 28), consists of a 3.4-acre fenced lot located near the southern end of the Maintenance and Supply Area (Figure 3-1). Buildings

588, 596, and 656 are located within SWMU 28. The 90-Day Drum Storage Area is located adjacent to the northern region of the Drum Storage Areas (SWMU 29) and immediately east of the Sanitary Landfill (SWMUs 12 and 15). EPIC photographs from 1953, 1959, 1966, and 1981 indicate that until approximately 1983, when the facility was constructed, drums were never stored within the perimeter of the 90-Day Drum Storage Area (EPA, 1982). EPIC photographs from 1953 indicate that the site was previously used for vehicle storage. No ground staining or standing liquid was evident on any of the available EPIC photographs (MW, 1993).

Currently, drummed wastes including gasoline, phosphoric acid, sodium hydroxide, paint wastes, thinners, solvents, paint filters, blast grit, used oil, and antifreeze are stored above ground on pallets in this area. Drums remain sealed and are stored up to 90 days before being transported from the depot to a hazardous waste management facility by a contractor, or to the permanent storage facility in Building 528. This site is not included in the TEAD-N RCRA permit, because 90-day storage areas are not required to obtain interim status operating permits. Spill response procedures at the 90-Day Drum Storage Area are provided in TEAD-N's Spill Contingency Plan, Spill Prevention Control and Countermeasures Plan, and Hazardous Waste Management Plan. Spill control equipment and supplies are maintained at the site to aid in the cleanup of any spills. According to TEAD-N, the largest expected spill would be equal to the largest container (55 gallons) at the facility (MW, 1993).

During the ENPA site visit on August 23, 1994, the 90-Day Drum Storage Area was found to be well organized and contained. No evidence of spills was encountered.

3.16.2 Known and Suspected Releases

SWMU 28 is currently under investigation within the scope of the Phase II RFI. Sampling at the 90-Day Drum Storage Area under Phase I RFI consisted of collecting eight samples of surface soils from areas where ground staining was observed. Samples were analyzed for total metals, VOCs, SVOCs, and TRPH. Contaminants detected included cadmium, lead, zinc, acetone, butlbenzyl phthalate, and TRPH (MW, 1993).

3.16.3 Conclusions

Based on the results of the Phase I RFI sampling program, it is apparent that metals and organic compounds have been released to the surface soils at SWMU 28. However, due to the biased sampling approach (sampling restricted to isolated stained areas), there is no evidence of widespread contamination.

3.16.4 Recommendations

Based on the results of the Phase I RFI sampling, it appears that activities at this SWMU have released contaminants, mainly metals and heavier petroleum hydrocarbons, to the environment. It is recommended that this SWMU be included in RFI Phase II activities. Recommended Phase II activities include subsurface soil sampling (3-5 feet deep) to determine the vertical extent of contaminants. In addition, sampling of non-stained areas is recommended to further delineate the aerial extent of contamination.

3.17 SWMU 29: DRUM STORAGE AREAS (AREE 17)

3.17.1 Description

AREE 17 consists of two drum storage areas (northern and southern) located near the southern end of the Maintenance and Supply Area (Figure 3-1). The two areas are separated by the Maintenance and Supply Road. SWMU 29 is located in the vicinity of SWMU 28 (the 90-Day Drum Storage Area), which has been designated AREE 16 in this report (MW, 1993). The southern area (also known as the old lumber yard) is a fenced, 25-acre expanse of gravel and broken asphalt surface with a single warehouse (Building 576), and one smaller associated office facility (Building 589). Currently, as was observed during the August 23, 1994 ENPA site visit, Building 576 stores hazardous materials used at TEAD-N. Numerous Army Hemmet vehicles are parked outside the building. Drum storage was also observed outside of the southern end of Building 576 during the August 23, 1994 ENPA site visit. Historical aerial photographs show that the southern part of SWMU 29 has been used for the storage of drums, as well as cylinders, tanker trucks, and lumber (EPA, 1982). The northern area of SWMU 29 is a triangular-shaped, sparsely-vegetated, open area of approximately 5 acres. A 1953 aerial photograph shows drums stored in this area, while aerial photographs taken in 1959 and 1966 indicate that the drums were removed and that the area was unoccupied. An aerial photograph from 1981 shows debilitated vehicles stored in the western part of the northern area (EPA, 1982). Visual inspection of the northern area during the August 23, 1994 site visit revealed that the lot was vacant with no current storage of hazardous materials.

The Drum Storage Areas were used to store empty drums before they were returned to the originating contractor. Empty drums were reported to have been stored upside down to allow residual contents to drain and to keep precipitation out. Chemicals that may have been released due to this practice include solvents, degreasers, and oils (EAESTI, 1988). Additionally, 1959 and 1966 EPIC aerial photographs identify a portion of the southern area as a "pesticide storage lot" (MW, 1993).

3.17.2 Known and Suspected Releases

The Drum Storage Areas have been investigated during both an RI conducted by Roy F. Weston, Inc. in 1990, and during the ongoing RFI being conducted by Montgomery-Watson, Inc. A total of 45 soil borings at depths from 0 to 5 feet were drilled during the RI and RFI. Contaminants detected in the soil borings included metals and cyanide, VOCs, SVOCs, pesticides, and TRPH. During the 1990 RI, three groundwater monitoring wells were also installed and subsurface soil samples were collected from each of the three borings. Potential chemicals of concern in subsurface soils were identified as bis(2-ethylhexyl) phthalate and the metals mercury and selenium. Two of these wells were sampled, and the third was dry. Potential groundwater contaminants were bis(2-ethylhexyl phthalate) and the metals silver, arsenic, beryllium, chromium, copper, nickel, lead, and zinc. A VOC, TCE, was also detected in one of the downgradient wells. However, it was determined that this well lies within 700 feet of the closed industrial wastewater lagoon outfall ditch B, which is a known source of TCE contamination (MW, 1993).

3.17.3 Conclusions

Based on the results of the RI and Phase I RFI sampling programs, it is apparent that various types of contaminants have been released to the surface and shallow subsurface soils at SWMU 29. However, it should be noted that all contaminants detected were either attributed to analytical laboratory contamination during sample extraction or were below Subpart S soil action levels.

3.17.4 Recommendations

Based on the results of the RI and Phase I RFI sampling, there is evidence that activities at the Drum Storage Areas have released contaminants to the environment. Metals, VOCs, and pesticide compounds were identified in the soil samples. Because the RFI Phase I and RI data provide sufficient coverage of AREE 17, it is recommended that the Phase I data be evaluated in the Phase II investigation to quantify health risks in a baseline risk assessment. Because present sample data provide analytical information for virtually the entire AREE, no additional samples collection is recommended at this time (MW, 1993).

3.18 SWMUs 2 AND 30: CONVEYANCE DITCHES AND LAGOONS (AREE 18)

3.18.1 Description

AREE 18 consists of conveyance ditches and lagoons that were associated with the IWL (SWMU 2) and the OIWL (SWMU 30). The OIWL consists of a gravel pit; some areas of former standing liquid (referred to as lagoons) and ground staining; and ditches A, E2, F, and H located in the western part of the BRAC parcel. The locations of these features were identified during the aerial photographic site analysis of the BRAC parcel (ERI, 1993). The gravel pit is located outside the BRAC parcel and thus is not part of AREE 18 (Figure 3-1). Before the construction of the IWL in 1965, liquid wastes containing solvents and heavy metals from maintenance operations (including degreasing, metal cleaning, stripping, and painting) were discharged to a widespread area through a series of outfalls and unlined ditches referenced to as the OIWL (Figure 3-1). The OIWL was operated for approximately 20 years at an estimated discharge rate of 125,000 gpd of wastewater (Weston, 1990). Portions of the OIWL ditches and lagoons were remediated as part of a RCRA remediation of the IWL. In addition, some remediated portions of these features have been paved for roads.

Between 1965 and 1988, following closure of the OIWL, the IWL received industrial wastewater from the Maintenance and Supply Area. The IWL consisted of an unlined evaporation lagoon (located northwest of the BRAC parcel) and the unlined conveyance ditches B, C, D, and E that tied into a main ditch (located west of the BRAC parcel). A waste stream originating from metal cleaning and stripping, sandblasting, steam cleaning, boiler plant waters, dynamometer test cells, overflow, spillage and leaks of effluent containing solvents, paint, photographic chemicals, and oils was delivered to the IWL at a rate of 125,000 gpd. The IWL was closed in 1988, and cleanup was completed in 1989. The cleanup in the area now occupied by the CMF consisted of a removal of contaminated soils in conveyance ditches to a depth of 12 feet. The IWL and conveyance ditch soils west of the present location of the CMF were remediated by removing contaminated soil to a depth of 20 inches and backfilling the trenches with clean soils (Figure 3-1). The contaminated soil was placed in the IWL located northwest of the BRAC parcel, which was then capped with a synthetic liner (REI, 1994b).

3.18.2 Known and Suspected Releases

No investigation of the OIWL was conducted during the Phase I RFI; however, the ditches and lagoons associated with the OIWL were characterized during the Phase II RFI conducted by Rust Environment and Infrastructure, Inc. Widespread metals contamination was indicated throughout the entire OIWL area. Of these metals, chromium was found to be the primary contaminant. Barium, cadmium, cobalt, copper, lead, mercury, nickel, vanadium, and zinc contamination were also found to be present. The metals contamination, with the exception of chromium, is located primarily at the surface. In addition to the widespread elevated concentrations, localized high concentrations of metals were detected in the three lagoons identified within the BRAC parcel. No evidence of VOC contamination was detected in surface and near-surface soils from the OIWL area, presumably due to the fact that discharge to the OIWL ceased nearly 30 years ago. Volatization, degradation, and vertical migration over this period of time would have removed VOCs from the surface and near-surface soils. Any VOCs migrating vertically to the groundwater would be part of the present contaminant plume being monitored and remediated under the PCP for the IWL (REI, 1994b).

The IWL and associated ditches were investigated during the Phase I RFI. No Phase II RFI sampling was conducted in the portions of the IWL located within the BRAC parcel based on the results of Phase I activities (REI, 1994b). Chromium, lead, and VOCs were detected in wastewater and sludge samples collected from the IWL during the Phase I RFI (Advanced Sciences, Inc., 1991). TCE, chloroform, chromium, lead, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and benzene were detected in groundwater beneath the IWL at concentrations in excess of Federal Drinking Water Standards during the Phase I RFI. (REI, 1994b).

A contaminant plume is currently present in groundwater beneath and downgradient of the IWL and OIWL conveyance ditches and lagoons. The primary contaminant which comprises this plume is TCE. This plume has been estimated to be approximately 400 feet thick and 16,000 feet in length, resulting in an effective volume of 35 billion gallons of groundwater exceeding the 5 micrograms per liter maximum contaminant level established for TCE (REI, 1994b).

3.18.3 Conclusions

The OIWL trenches and lagoons were found to be widely contaminated with metals. The metals were detected at concentrations in excess of background levels in the upper 5 feet of soils, with the highest concentrations present at the surface. Sample results show that metals contamination is consistent throughout the entire OIWL area. SVOCs and VOCs do not appear to be chemicals of concern for soils under current conditions; however, a TCE plume typically associated with the IWL is present beneath SWMU 30.

The IWL conveyance ditches that are within the BRAC parcel are documented known sources of groundwater contamination. Subsurface soils, sludge, and groundwater samples collected from SWMU 2 features contain several VOCs, phenolic compounds, and explosive compounds. A TCE groundwater plume extends from the IWL conveyance ditches and lagoon to the northern TEAD-N boundary.

3.18.4 Recommendations

No further RFI investigations are recommended for the OIWL trenches and lagoons. Although risks to human health are below EPA and State of Utah risk-based criteria, some risks to ecological receptors appear to exist. These risks need to be evaluated further during the CMS that has been recommended for SWMU 30. The CMS will determine whether any remedial action is required to protect potential ecological receptors (REI, 1994b).

Although no further RFI/CMS investigations are recommended for the IWL conveyance ditches (SWMU 2) under the RFI, this SWMU has been retained as part of AREE 18 due to the fact that the conveyance ditches associated with the IWL west of the present CMF were only excavated to a depth of 20 inches. Additionally, no record of confirmatory sampling could be found. It is likely that significant contamination remains in the subsurface soil at the locations of the conveyance ditches. It is recommended that subsurface sampling be conducted to determine if contamination remains. If so, the contaminated soil should be excavated and properly disposed of. Analyses should include VOCs, SVOCs, and metals.

The source of groundwater contamination associated with AREE 18 has been minimized due to the fact that volatile contamination was not detected in soils associated with OIWL features, and the fact that contaminated soil associated with some of the IWL features has been removed or otherwise remediated. A pump and treat system is currently in operation downgradient of the Maintenance and Supply Area at the northern TEAD-N boundary to intercept and remediate contaminated groundwater which resulted from the TCE plume from previous wastewater disposal operations at AREE 18. As such, no additional groundwater sampling is recommended excluding sampling conducted to assess the effectiveness of the pump and treat system.

3.19 LEAD-BASED PAINT (AREE 19)

3.19.1 Description

The regulation that impacts the Tooele BRAC parcel is Title X (The Residential Lead-Based Paint Hazard Reduction Act of 1992) of Public Law 102-550. Title X drives BRAC lead-based paint policy for Army property transferred after January 1, 1995. Title X specifies specific actions for pre-1960 target housing and target housing constructed between 1960 and 1978. Army policy guidance defines target housing as "any Army housing constructed before 1978 in which any child less than 6 years of age resides or is expected to reside" (DA, 1993).

In the BRAC Administration Area, barracks and other housing-type structures exist that could potentially be used as such housing. To date, these barracks and other structures have not been used to house children less than 6 years of age. However, the intended future use of these barracks and other structures are uncertain at this time and accordingly are designated as AREE 19 in case of use as target housing.

The structures that have been designated as AREE 19 are shown on Figure 3-2 and include S-101; S-103; S-104; S-110; S-111; S-113; S-115; S-117; S-118; S-119; S-120; S-121; S-122; S-123; S-124; S-125; S-126; S-141; S-143; S-145; S-147; S-149; S-150; S-151; S-152; S-153; S-155; 1000; 1001; 1002; 1004; 1005; 1010; and Tooele Valley High School. These buildings were all constructed prior to 1978 (or no known construction dates are available) and are

considered to have potential future use as target housing. Please refer to Table 2-1 for the buildings' current use and year built.

3.19.2 Known and Suspected Releases

No known or suspected releases of lead-based paint have been reported. No lead-based paint surveys have been conducted.

3.19.3 Conclusions

Based on the results of the Community Re-Use Plan currently being developed for the TEAD BRAC parcel, barracks and other housing-type buildings could be used as target housing. If so, Title X will require the inspection and abatement of lead-based paint hazards.

3.19.4 Recommendations

Prior to allowing re-use of the structures listed above for target housing, inspection and abatement of lead-based paint must be conducted. Inspection requires a surface-by-surface investigation to determine the presence of lead-based paint and the provision of a report explaining the results of the investigation. Abatement inlcudes a set of measures designed to permanently eliminate lead-based paint hazards.

3.20 OTHER AREAS CONSIDERED (NON-AREES)

Some BRAC parcel areas of environmental concern that were documented in past investigations are not considered AREEs under this investigation, because they have been remediated or because preliminary investigation indicates that no further action is warranted. Also, areas of potential environmental concern that are not considered AREEs and have not been investigated in the past are discussed in this section. Specifically, these areas of concern do not indicate a release to the environment but may affect the expeditious transfer of the BRAC property, and thus should be addressed by the installation rather than through the CERCLA or RCRA processes. The following areas are discussed in detail within this section:

- Storage Tank for TCE (SWMU 44)
- CERCLA OU5
- CERCLA OU6
- Smaller 90-Day Collection Yards
- General Maintenance Building Condition (numerous structures)
- Radon
- UXO
- Spills

3.20.1 No Further Action SWMUs

Five no further action SWMUs or potential no further action SWMUs are discussed below.

3.20.1.1 Storage Tank for Trichloroethylene (SMWU 44)

The Storage Tank for TCE (SWMU 44) formerly located in Building 620, was considered a SWMU, because the tank contents were emptied into the industrial sewers connected to the IWL. In April 1991, the tank was turned over to the DRMO for salvage. The IWL and associated outfall ditches have been excavated and capped. Remediation of the contaminated groundwater associated with the IWL is underway. Because neither the tank nor the contamination originating from it remains at the site, no further action has been recommended for this SWMU (MW, 1993).

3.20.1.2 Former Transformer Storage Area (SWMU 17)

CERCLA OU5 consists of two SWMUs that are both within the BRAC parcel. Both of these SWMUs are currently pending a no further action decision, and as such, are not designated AREEs. The first SWMU is the Former Transformer Storage Area (SWMU 17), which refers to OSL 675B, located in the northern portion of the Maintenance Area of TEAD-N approximately 500 feet northwest of Building S-670 (Figure 3-1). The lot is unpaved but covered with gravel and encompasses an area of approximately 5 acres. One of the responsibilities of TEAD-N has been the receiving, storage, maintenance, and shipment of oil-containing electrical transformers and capacitors. Prior to 1979, long-term storage of thousands of transformers and capacitors was performed at Lot 675B. Many of the transformers contained PCB-contaminated oil (REI, 1994a). In 1979, all transformers were removed from the site for storage at Building 659 or for disposal. Following removal, the TEAD Facilities Engineering Division reportedly sampled surficial soils at the site to determine PCB concentrations. According to site personnel, no soil samples contained PCB concentrations greater than 50 ppm (EAESTI, 1988). Based on the results of the risk assessment conducted at OU5, no further action is currently recommended for SWMU 17.

3.20.1.3 PCB Storage Building 659 (SWMU 33)

The second area within OU5 is the PCB Storage Building 659 (SWMU 33). This is a TSCA-permitted facility used to store transformers. The building has a sealed concrete floor with a perimeter berm and diversion structures at each entrance for the containment of oil spills. The facility began operating in 1979 and is used to store thousands of transformers that were once stored on the OSLs. The transformers are stored on open pallets and in wooden crates within the building. As late as November 1992, PCB-contaminated transformers were still being removed from TEAD-N, with temporary storage occurring at Building 659 during the removal process. During the site visit in October 1993, approximately 6,000 transformers were stored in Building 659. According to installation personnel, the transformers were either empty, did not contain PCBs, were PCB-contaminated, or contained PCBs (Holman, 1993). The building was clean, well-maintained, and no evidence of PCB spills were noted. On the basis of reviews of operational and cleanup procedures at the building, it does not appear that additional investigations are warranted at SWMU 33.

3.20.1.4 Drummed Radioactive Waste Area (SWMU 9)

CERCLA OU6 consists of two sites where releases of radioactive contaminants were suspected to have occurred. This includes the Drummed Radioactive Waste Area (SWMU 9) and the Radioactive Waste Storage Building (SWMU 18). The Drummed Radioactive Waste Area consists of two areas that were previously identified as having been used for the storage

of several 55-gallon drums containing low-level radioactive waste. During the RI, a surface beta/gamma radiation survey was conducted across the two suspected areas of drum storage to determine if a release of radioactive materials had occurred. The first small area was scanned over its entire surface with no radioactivity detected above background. The second larger area was gridded and each grid line was scanned for beta/gamma radiation. Again, no areas of radioactivity above background were detected during the survey. Because of the lack of any elevated beta/gamma radiation, no surveys were conducted for alpha radiation. As a result of the radiation surveys, it was determined that no further investigation of SWMU 9 is warranted (REI, 1994a).

3.20.1.5 Radioactive Waste Storage Building (SWMU 18)

The Radioactive Waste Storage Building (SWMU 18) is located on the northern end of Building 659. This radioactive storage portion of the building is walled off and locked. The storage area is a Nuclear Regulatory Commission-licensed facility for the storage of radioactive materials. Low-level radioactive materials are stored in this area. Access to the materials is controlled, and periodic monitoring of the facility for releases of radioactive materials is performed. During a site visit in 1992, it was determined that further investigations at this facility were not warranted. Since this facility is an active licensed facility that is locked, well maintained, and monitored, it appears that no further investigations are required (REI, 1994a).

3.20.2 Installation-Based Considerations

Installation-based considerations are broad-based and include smaller 90-day collection yards, general maintenance building conditions, lead-based paint, radon, and UXO.

3.20.2.1 Smaller 90-Day Collection Yards

Many facilities within the BRAC parcel have small 90-day collection yards for the temporary storage of hazardous waste that is produced during industrial operations. These areas are slowly being phased out in favor of a larger yard outside the BRAC boundary. TEAD-N is implementing a program to reduce waste production through the use of less hazardous chemicals. When combined with the phase-out of many waste producing operations, the need for these smaller yards has been reduced. Visual inspection of the 90-day collection areas within the facility revealed that they are in excellent condition, and are fenced, and locked. Many, but not all of the 90-day areas are bermed. Moreover, the USDEQ-DSHW has inspected all 90-day collection yards and has not required TEAD-N to include these units in the RFI investigation.

3.20.2.2 General Maintenance Building Condition

The primary activities that occur in the maintenance buildings are related to major (military vehicles, etc.) and secondary (generators, compressors, etc.) item remanufacture. The maintenance buildings of concern include Buildings 600, 601, 602, 604, 606, 610, 611, 612, 613, 615, 620, 621, 637, 639, 647, and 691. The activities include receiving, unpacking, disassembly, cleaning, sand blasting, painting, overhaul, repair, reassembly, packing, and shipping. Each of the activities currently performed in the CMF occurred in the maintenance buildings prior to 1992, when the consolidated new facility came online. Many of the maintenance buildings were observed to be vacant during the site visits, as operations

previously conducted in these structures are now performed at the CMF. Most maintenance structures are currently limited to a single remanufacturing activity (such as the Building S-604 Power Train Rebuild Shop) or contain a specific type of manufacture-related equipment (such as the Building 613 Sheet Metal Shop).

Due to the nature of the industrial activities conducted in these buildings and the variety of materials used, such as solvents, paints, degreasers, greases and oils, widespread residual and local areas of contamination exist within the buildings. Some areas of localized contamination include, but are not limited to, caustic dip tanks and paint booths. Caustic dip tanks were used in Buildings 600, 604, 611, 615, and 637 to clean parts and remove corrosion and debris from working surfaces. The tanks consist of open vats of varying size that are ventilated with a hood above the tank. Parts are lowered into the tanks for a designated cycle or until clean. When the caustic solution was contaminated beyond usefulness, the tanks used to be drained in the IWL but are now drained into the IWTP system. The concrete floor below the tank in Building 615 is badly etched from caustic spills from the tanks. The tanks in Building 615 are no longer in use and are awaiting removal.

Vehicle paint booths, another area of localized contamination within the maintenance buildings, are currently operating in the Buildings 612, 615, and 647. The booths are enclosed facilities within the structures where spray painting of vehicle parts takes place. In the past, spray painting operations took place in Buildings 600, 602, 604, 611, 621, 639, and 691. Spray painting operations often leave a residue on the internal surfaces of the buildings.

Additionally, steam cleaning operations were prevalent in structures throughout the BRAC parcel. Overspray from these operations has potentially contaminated the interior surfaces of the structures. Oil stains and spillage of vehicle fluids such as antifreeze and hydraulic fluid are a common occurrence at operations of the type associated with maintenance activities. Stains and residue often remain. Also, residues from parts grinding, body work, welding and other related operations are often left which can potentially contaminate building surfaces.

Moreover, in the basement of Building 611 at the southwest end of the structure, there is a small arms testing and firing range. The range consists of two underground rooms connected by two buried steel tubes that are approximately 50 feet long. The north room contains the firing line where weapons were discharged through the steel tubes towards targets hanging at the end of the tubes. A system of electric cables reportedly positioned the targets from a control panel in the firing room. Located at the opposite end of the tubes is a room that contains a large volume of sand that functioned as the backstop for the bullets fired from the other room. The sand was occasionally sifted to recycle the bullets from it. Specific information was unavailable concerning the level of activity at the range. The majority of the bullets fired into the sand backstop at the small arms testing and firing range are made of lead with copper or possibly steel jacketing. It was reported that the sand was occasionally sifted to recycle the bullets. Although no information exists confirming a release of contaminants, the possibility exists that the sand contains lead and other heavy metals from the bullets.

According to Lloyd Laycock, CMF Common Area Project Manager, there is a system of decontamination that has been implemented and used to clean vacated structures in the past. These procedures, as implemented, were not recorded at any time. A consistent, common sense approach in accordance with promulgated TEAD-N environmental and safety guidelines were applied, however. It was reported that "courtesy inspections" by the TEAD Environmental Office, the TEAD Safety Office, and the TEAD Industrial Hygiene Office were

performed at each of the buildings which were cleaned. Some of these inspections also included limited wipe sampling (particularly in areas where sand blasting was formerly conducted) and perhaps other sampling, performed by representatives of the TEAD offices listed above.

The specific system used to clean the buildings was described as follows:

1. Any process equipment (tanks, equipment, instruments, paint booths, sand blasters, etc.) remaining in the structures was addressed first. Prior to moving this equipment, liquids were drained, dusts were cleaned out, etc. These materials were disposed of in accordance with existing installation environmental and safety guidelines. For example, leftover oil in a machine would be drained, drummed, labeled, stored, and disposed appropriately for such a substance. Oils and greases were the materials most commonly encountered in process equipment during these building closures. Sand blasting equipment contained significant dust, suspected to contain detectable heavy metals. This dust was drummed and disposed of accordingly. In the event that process equipment contained liquids or solids of an unknown origin or composition, these materials were sampled and analyzed by the installation laboratory. These materials would be drummed and a temporary drum label affixed to them until the results of the laboratory analyses were available.

2. Once all of these materials were drained from the process equipment, Millwrights provided electricians to disconnect any power to the equipment. Similarly, plumbers and other personnel were contacted to disconnect any other utilities connected to the process equipment. Once the utilities were completely disconnected, the equipment was removed from the structure. None of the paint was chipped off any process equipment removed from the vicinity of former paint booths. If potential ACM was encountered at any time during process equipment removal, a sample would be collected and the material would be disposed of appropriately, based on the results of the analysis of this material. These samples were also sent to the installation laboratory.

3. Process equipment removed from structures was thoroughly steam cleaned after removal from a structure, and prior to such equipment being relinquished to Property Disposal.

4. The next step was to clean the floors and walls of the vacant structure. Floors were swept up, unless they encompassed the location of a former paint booth. If paint was present on the floor, an unnamed piece of heavy equipment with a blade was brought into the structure to chip the paint off the floors. Chipped paint pieces were drummed, etc. appropriately. If dynamometers or other pieces of equipment with oil, gas, diesel, etc. were prevalent in a structure (such as Building 637, for example), a portable steam cleaner was brought into the structure and the floors were steamcleaned. Steamcleaning effluent was routed to the IWTP via the existing wastewater distribution system in place at these structures. The floor drain system was cleaned out in each structure where the steamcleaning was conducted, once floor cleaning was completed.

5. Walls were cleaned by vacuuming in vacant structures, particularly if sand blasting operations had occurred in the past. Wall surfaces were also mopped in areas where heavy metal contamination was anticipated (i.e. where sand blasting had been performed).

There are no known or suspected releases to the environment from specific BRAC maintenance buildings that have been documented. Releases within the buildings, either specific cases such as spills or residual contamination, are known and were observed during the ENPA site visits. A seemingly effective system of building closing and cleaning/ decontamination has been implemented by the installation for the heavy maintenance buildings. Visual observations of cleaned buildings indicate that the system is probably thorough and effective. It should be emphasized that many of the cleaned buildings have been scheduled to be reoccupied for various reasons.

It is recommended that the installation's procedures for closing and cleaning the heavy maintenance areas be documented on a building-by-building basis and filed with the installation's facilities maintenance branch, as such procedures may be critical for transfer of the property. Cracks and other signs of degradation to the structure's foundation should be investigated as potential pathways for releasing contaminants to the environment. Additionally, verification sampling, such as wipe sampling should be implemented on a regular basis, with analyses specific to the building's historical use. Some kind of action levels should be set to determine at what level cleanup is considered effective. All sampling results should be filed with the installation's facilities maintenance branch.

3.20.2.3 Radon

A radon monitoring program has been conducted at TEAD-N. A July 1991 report indicates samples were taken at 35 structures including schools, hospitals, housing, day care centers, 24-hour operations, and a representative number of other structures at the base. Structures sampled that are within the BRAC parcel included Buildings 594, 595, 671, and 1000. The samples were taken over a 1-year period with results far below the action level of 4 picocuries per liter set by the EPA. Since the action level was not exceeded in any of the structures and only one structure within the BRAC parcel (Building 611) has a basement, radon was not identified as an AREE. Appendix H contains the radon survey results.

3.20.2.4 UXO

UXO is not considered to be of concern within the BRAC parcel. Although explosive ordnance has been stored and used on-post, no documentation exists to indicate it was used or stored within the BRAC parcel. Since the 1940's, the BRAC parcel has been utilized for personnel work, mostly vehicle maintenance and administration (REI, 1994a).

3.20.2.5 Spills

Lastly, spills that have occurred within the BRAC parcel are documented in the spill report in Appendix A. The installation has a spill contingency plan that is activated when an uncontrolled release of hazardous materials occurs. During the ENPA site visits and investigation of records, no evidence of improperly handled spills was encountered.

4.0 HUMAN AND ENVIRONMENTAL RECEPTORS

Human and environmental receptors become at risk when contaminants are released to the environmental media (e.g., air, water, and soil) from primary sources. The environmental media can then become secondary sources for contaminant migration, as well as potential exposure media for human and environmental receptors. The pathways for contaminant migration from the BRAC parcel to potential receptors involve soil, groundwater, surface water, and air. Additionally, human and environmental receptors could come into direct contact with contaminants which have been stored or used on the BRAC parcel. Figure 4-1 illustrates the major primary and secondary sources of contamination, contaminant release and transport mechanisms, and potential exposure media for human and environmental receptors for the BRAC parcel. Each of the potential exposure media are discussed in detail below.

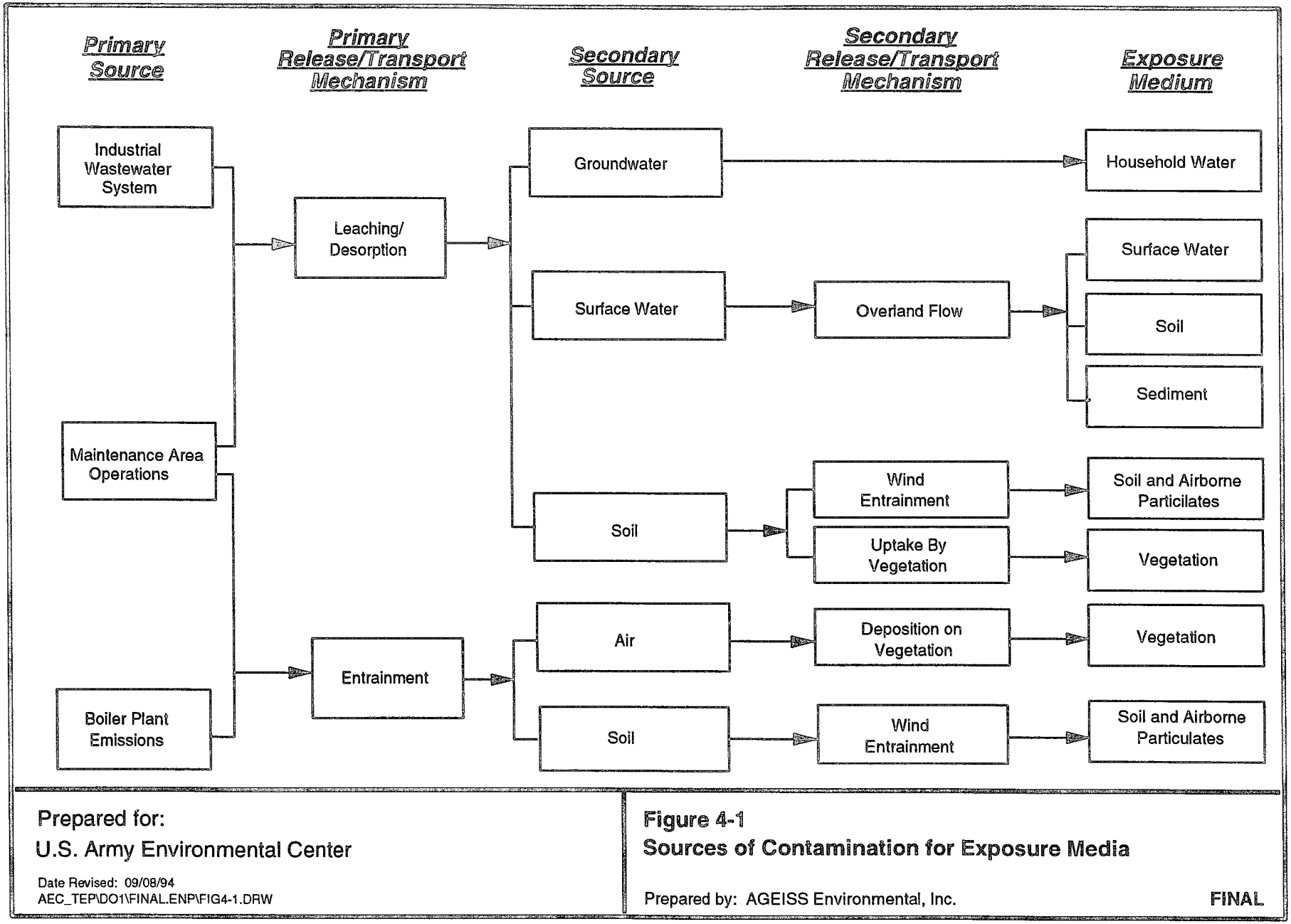
4.1 EXPOSURE TO GROUNDWATER

Human receptors can be exposed to contaminated groundwater when the groundwater is used as a household water supply. Use of contaminated groundwater for household purposes can lead to exposure through the ingestion, inhalation (e.g, inhalation of VOCs released while showering), and dermal contact routes.

Groundwater flow at the BRAC parcel generally follows topography, flowing across the installation in a northwesterly direction towards the Stansbury Mountains. Specifically, the alluvial groundwater flows through saturated fan deposits. Groundwater flowing through the bedrock does so through fractured sandstone, quartzite, limestone, and dolomite. These two groundwater sources consist of a single interconnected aquifer system. The general groundwater flow direction at TEAD-N is from southeast to northwest, with groundwater flowing from the east and south toward the center of the valley and finally north toward the Great Salt Lake. The flow direction is altered to some extent in the IWL area which is located outside of the BRAC parcel, where the alluvial aquifer encounters a fault-block bedrock ridge. Personnel at TEAD-N and residents of the nearby communities rely heavily on groundwater as their source of drinking water. In general, the municipal wells located on the installation are somewhat protected from past base activities. These municipal wells are located in the southeast portion of the installation, outside the boundaries of the BRAC parcel and upgradient from areas of known and suspected contamination. Three community water wells for the town of Grantsville are located downgradient (i.e., northwest) of the BRAC parcel (REI, 1994a).

Potential sources of groundwater contamination at the BRAC parcel include the following:

- Migration of groundwater contaminant plumes (TCE) from the IWL (SWMU 2) and the Sanitary Landfill (SWMUs 12 and 15)
- Migration of potential contaminants from the former industrial wastewater system, or from portions of the old system currently utilized in the new system
- Migration of potential contamination from the drain field and disposal trenches in the Administration Area
- Leaking USTs containing fuel oil and other petroleum products



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U.S. Army Environmental Center

Date Revised: 09/08/94
AEC_TEP\DO1\FINAL.ENP\FIG4-1.DRW

Figure 4-1
Sources of Contamination for Exposure Media

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- Migration of potential contamination from the 90-Day Drum Storage Area (SWMU 28) and the Drum Storage Areas (SWMU 29)

- Migration of groundwater contamination associated with the drainage ditches and lagoons from SWMUs 2 and 30

Based on available sample results, TCE is the major groundwater contaminant detected at TEAD-N (ESE, 1991). The contamination has been attributed to the former operation of the IWL and unlined ditches which carried waste materials to the lagoon (ESE, 1991). The TCE plume appears to be migrating in a northwesterly direction from the site of the former industrial wastewater system.

A secondary source of TCE groundwater contamination is the Sanitary Landfill (SWMUs 12 and 15). The contamination has been attributed to hazardous waste disposal within the landfill. The resulting plume has been identified at the southern end of the Maintenance and Supply Area and appears to be migrating in a northwesternly direction (REI, 1994b).

Groundwater flow occurs in both alluvium and bedrock in the vicinity of the IWL due to the presence of a northeast to southwest oriented elongated block of tilted, metamorphosed sedimentary rock. Depth to bedrock in the area of the IWL ranges from ground surface to 400 feet below ground surface. In general, the alluvial groundwater flows to the northwest with a relatively flat gradient except in the vicinity of the bedrock block, where the hydraulic gradient steepens and deflects considerably. Altitudes of the bedrock directly influence the groundwater-flow patterns of the IWL area. Although the permeability of the bedrock material itself is low, extensive fracturing allows considerable groundwater flow. The fracture flow, however, is highly variable in the bedrock aquifer (SEC Donahue, 1993). A pump-and-treat system has been installed at the northwest boundary of the installation to treat TCE-contaminated groundwater before it travels off-post (Metcalf and Eddy, 1993). The treatment system currently treats approximately 5,000 gallons of groundwater per minute. As long as the treatment system remains effective in intercepting and treating the contaminant plume, the potential for human receptors living northwest of the installation to be exposed to contaminated groundwater is unlikely.

Environmental receptors can be exposed to contaminated groundwater through various pathways including groundwater used for irrigation purposes or groundwater in contact with surface water features. These situations are not likely for the area surrounding the BRAC parcel, so exposure of environmental receptors to contaminated groundwater is not considered to be significant.

The potential for groundwater contamination exists at 17 of the 19 AREEs identified during the ENPA at the TEAD-N BRAC parcel. AREE 10, friable and nonfriable ACM, is the only AREE not anticipated to potentially impact groundwater. The release of contaminants to the ground surface could potentially occur as a result of operations conducted at AREEs 1a, 1c, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16, 17, and 18. Underlying groundwater will not be impacted, however, unless a sufficient driving force is present to transport this surficial contamination to the depth of the water table. Due to the lack of annual precipitation at the TEAD-N installation, percolating surface water is not an effective transport mechanism to impact the underlying groundwater. Asphalt and concrete surfaces present in the vicinity of the BRAC parcel further reduce the potential for impact to groundwater; however, the integrity of some of these paved surfaces is such that some percolation is possible. Additionally, the presence of

impermeable paved surfaces may produce overall greater amounts of runoff which could increase percolation at unpaved areas. AREE 1a has the greatest potential for impact to groundwater, as the volume of water flowing through the stormwater system provides the driving force to transport contamination downward through the unsaturated zone.

The potential for groundwater contamination from operations conducted at AREEs 1b, 3, 12, and 18 is greater than that at the AREEs listed above. AREEs 1b, 3, 12, and 18 are located either entirely or at least partially beneath the ground surface, therefore potential contamination releases are in closer proximity to the saturated zone. AREE 1b has the greatest potential of these subsurface sources of potential contamination to impact underlying groundwater, as the volume of wastewater flowing through the new system provide a mechanism to transport contamination from areas of poor integrity (old connections) through the unsaturated zone into the water table aquifer.

It should be noted, that although some of these areas may be determined to contribute to the groundwater contamination, an extensive monitoring program and large-scale treatment system is currently in place to treat the TCE-contaminated groundwater plume which underlies the BRAC.

4.2 EXPOSURE TO SURFACE WATER

Because of the arid climate, surface water is a rare occurrence at the BRAC parcel. Most of the surface water on the BRAC parcel comes from precipitation. The surface water that does occur quickly evaporates, infiltrates, or is routed through the stormwater collection system. Surface water at the BRAC parcel could be a potential transporter of contamination to other media (e.g., air, soil, or groundwater) especially in the presence of occasional intense storms. However, since surface water is not a prominent environmental medium on the BRAC parcel, exposure to human and environmental receptors from contaminated surface water is not considered to be significant.

The potential for surface water contamination exists at ten of the 19 AREEs identified during the ENPA at the TEAD-N BRAC parcel. The release of contaminants to the ground surface could potentially occur as a result of operations conducted at AREEs 1a, 2, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16, 17, and 18. Contaminants on the ground surface in these areas could potentially impact surface water via stormwater runoff; however, this scenario is unlikely in all but AREE 1a. AREE 1a is the only AREE where transportation of contamination to surface water is probable. The results of surface water sampling conducted at AREE 1a will indicate the concentration of contaminants in surface water as a result of AREE 1a activities.

4.3 EXPOSURE TO SOIL

Soil contamination is an important concern for the BRAC parcel, because contaminated soil can be a secondary source for releases to air, surface water, and groundwater. Human and environmental receptors can be exposed to contaminated soil through the ingestion, inhalation, and dermal contact routes. Some materials, depending on their concentrations, can present a greater risk to receptors as an inhalation hazard than as an ingestion hazard. The exposure can occur from volatile organic vapors or airborne particulates (i.e., contaminants bound to dust particles).

Potential sources of soil contamination at the BRAC parcel include the following:

- USTs
- ASTs
- Former storage areas
- Boiler Plant blowdown areas
- Used oil dumpsters
- Sand blast areas
- DRMO yard
- Radiator Repair Facility
- Old Wastewater Distribution System
- Compressor Condensate Drain
- Recycler's Building
- IWTP
- Drain field and disposal trenches
- Battery shop
- Chromic Acid/Alodine Drying Beds
- 90-Day Drum Storage Area
- Drum Storage Areas

The areas listed above warrant further investigation to determine whether contamination exists and, if so, to determine the nature and extent of the contamination present (Advanced Sciences, Inc., 1991).

4.4 EXPOSURE TO AIR

There are currently several areas of concern that involve potential sources of air contamination at the BRAC parcel. These include asbestos in buildings, lead-based paint, boiler plant emissions, paint booth emissions, solvent tanks, sand blast areas, and airborne particulate and/or VOCs from contaminated soils.

The primary receptors of potential asbestos exposure would be humans occupying buildings containing this material. Potential human receptors include office and maintenance personnel as well as remediation and demolition personnel. Base-wide surveys are presently underway or complete for asbestos to determine the potential and the extent of this contaminant. Initial results indicate that asbestos is present in numerous buildings at the base.

The boilers, paint booths, solvent tanks, and sand blast areas on the installation are operating under permit from the USDEQ - Division of Air Quality. Also, no recent Notices of Violation were noted. (Strong, 1993).

AREEs have been identified that have potentially contaminated soils associated with them. These areas could become sources for the release of airborne particulates and/or VOC emissions depending on wind conditions and remedial activities that disturb the soil.

5.0 ENHANCED PRELIMINARY ASSESSMENT FINDINGS AND CONCLUSIONS

This ENPA report has been based primarily on the environmental conditions observed at TEAD-N, during the study period of this report as well as review of applicable documents. Past site conditions and management practices were evaluated, based on readily available records and the recollections of people interviewed. Every effort has been made within the scope of this task, to interview appropriate site personnel, especially those personnel with a historical perspective of site operations. In this section of the report, the conclusions and findings of this ENPA are summarized.

5.1 AREAS WITH MINIMAL POTENTIAL FOR ENVIRONMENTAL PROBLEMS

Through a review of available information, site visits, and interviews with TEAD-N personnel, the following areas within the BRAC parcel have been identified as having minimal potential for environmental problems associated with real estate transfer:

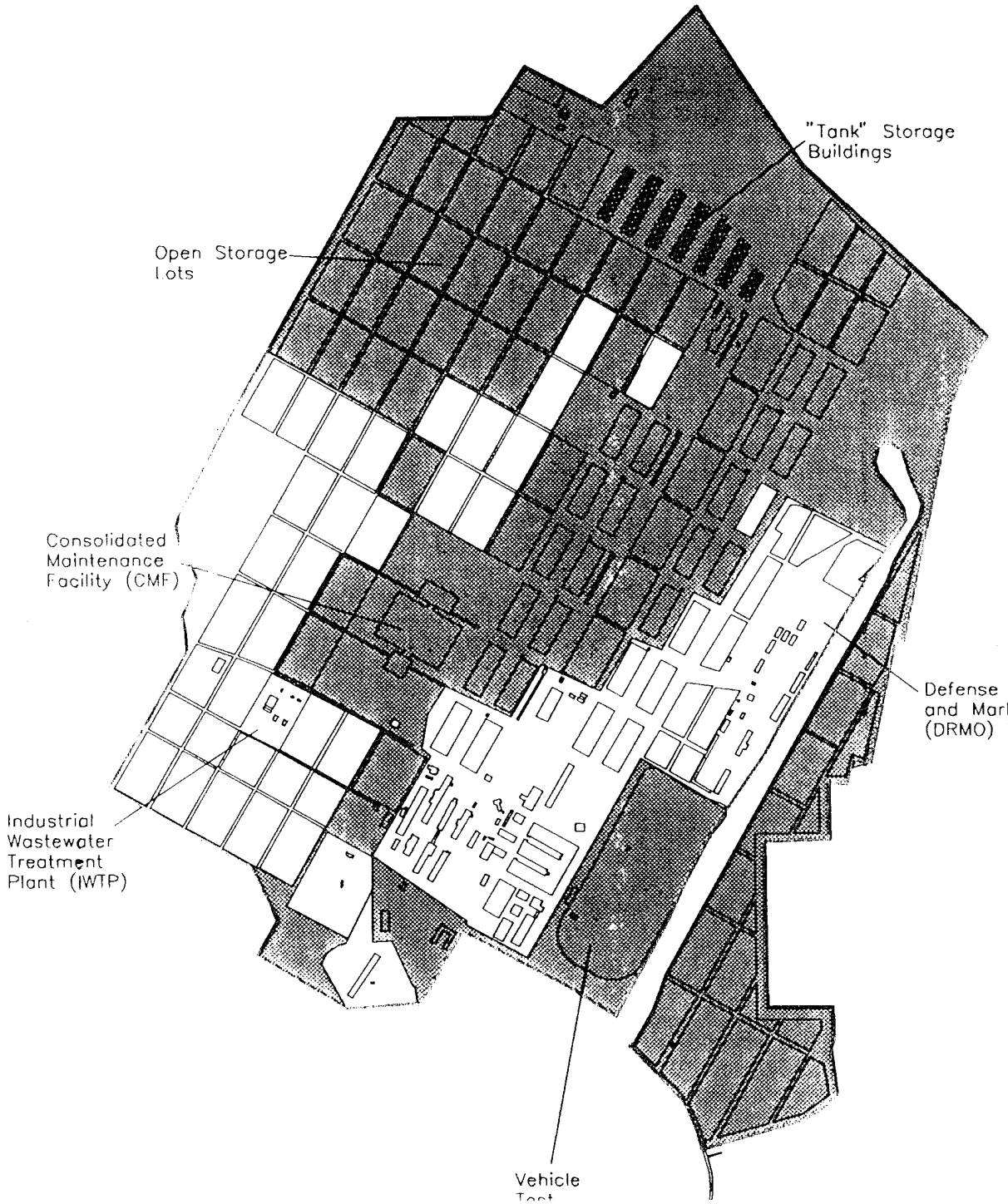
- The Administration Area, except for the drain field and disposal trenches and buildings with lead-based paint
- The CMF and immediately surrounding areas
- The OSLs at the west side of the Maintenance and Supply Area BRAC parcel, excluding those which are affected by AREEs
- The warehouses and tank storage buildings at the north end of the Maintenance and Supply Area, excluding Building 691
- The Combat Vehicle Test Facility
- Open fields and OSLs north and east of the DRMO

These areas with minimal potential for environmental problems are shown in Figure 5-1. It should be noted that even though the above areas may have a minimal potential for environmental problems, the groundwater plume underlies portions of these areas. Also, this report and the conditions represented within are limited to conditions observed and reported at the time of the site visits. It is possible that conditions may have changed since the project site visits or historical practices not uncovered may impact the investigation results.

5.2 SUMMARY OF ENPA FINDINGS AND CONCLUSIONS

In this report, 19 AREEs were identified within the BRAC parcel. Findings and recommendations for further action for each of the 19 AREEs are summarized in Table 5-1. Of these, 14 were found to be of limited areal extent and were readily geographically definable through either visual inspection or through extensive review of existing documentation and personal interviews of facility personnel. The five remaining AREEs, AREEs 10 through 13, and AREE 19 address installation programs for asbestos, PCB-containing transformers, USTs, ASTs, and lead-based paint.

Five AREEs were identified through the ENPA process that had not been previously identified by other investigations. These areas are now designated SWMUs, and are scheduled to be investigated under the ongoing RFI. These AREEs include the following:



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Areas with Minimal Potential for Environmental Problems

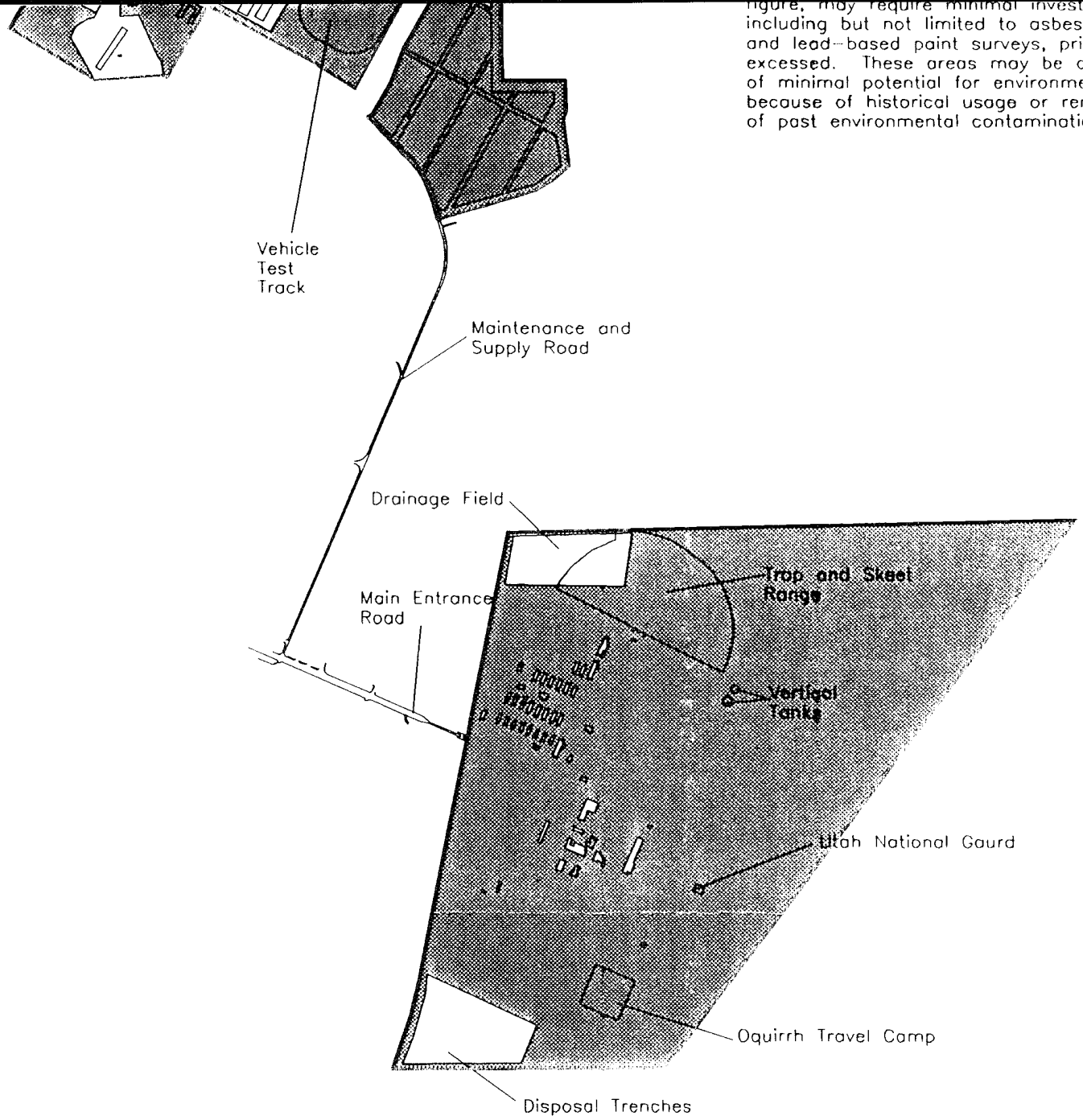
BRAC Parcel Area

N

SCALE
0 1500
FEET

SOURCE: Office of the Facilities Engineer, 1991 (modified)
Tooele Army Depot
Tooele, Utah

NOTE: The areas with minimal potential for environmental problems, identified on this figure, may require minimal investigation, including but not limited to asbestos, radon, and lead-based paint surveys, prior to being excessed. These areas may be considered of minimal potential for environmental impact because of historical usage or remediation of past environmental contamination.



figure, may require minimal investigation, including but not limited to asbestos, radon, and lead-based paint surveys, prior to being excessed. These areas may be considered of minimal potential for environmental impact because of historical usage or remediation of past environmental contamination.

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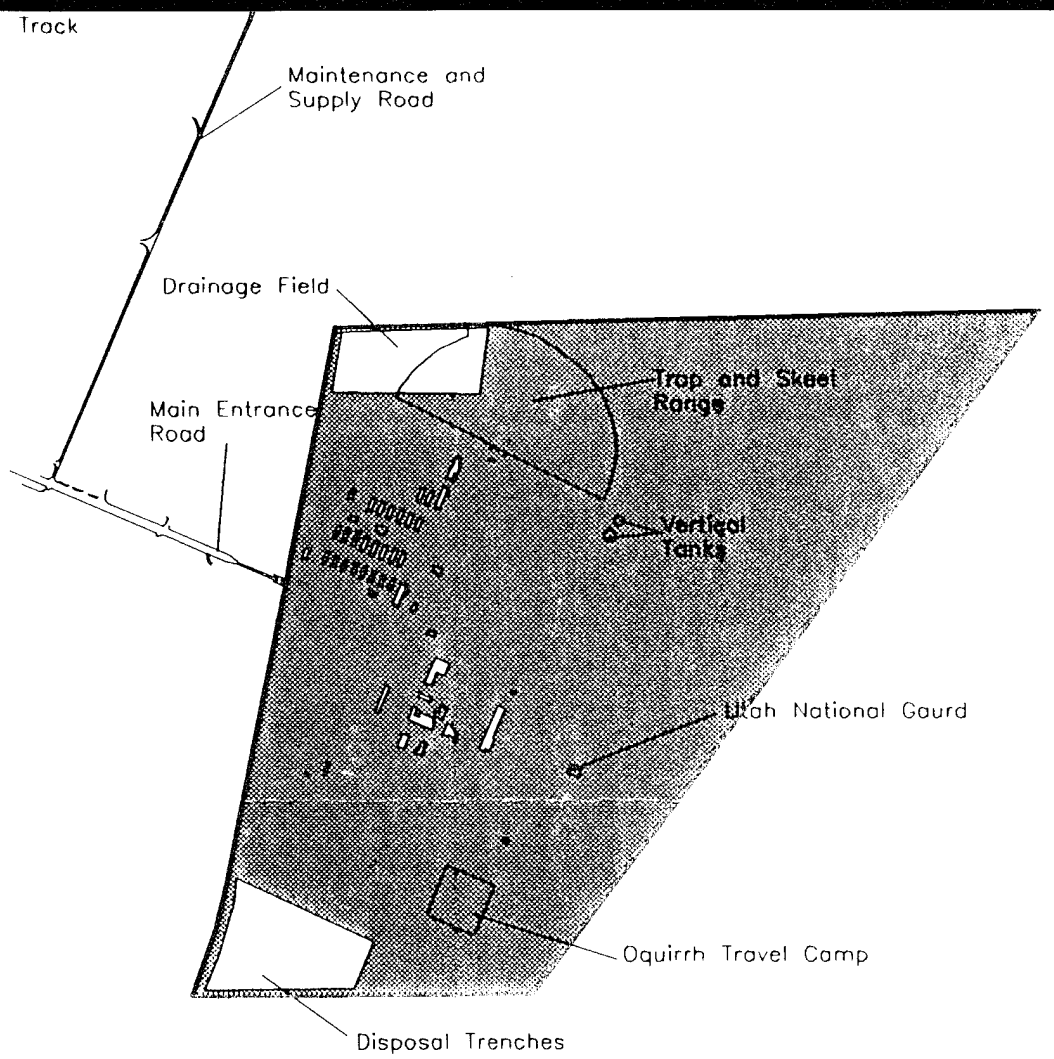
Figure 5-1



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Date Revised: 09/23/94
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Figure 5-1

Areas with Minimal Potential for Environmental Problems

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Table 5-1. Summary of Findings and Recommendations for Further Action.

AREE Number	Description	Building Numbers/Locations	Summary of Findings	Potential Contamination	Recommended Activity	Proposed Analyses
1	SWMU 49: Old Industrial Wastewater Distribution System This AREE consists of three parts: 1a) Current Stormwater Sewer System (Former Industrial Wastewater Pipelines) 1b) Old Connections to the New Wastewater System 1c) Radiator Repair Facility	1a) The system is located above and below ground throughout the Maintenance and Supply Area. 1b) Buildings 600, 601, 602, 606, 609, 610, 611, 612, 615, 620, and 637. 1c) Building 609	1a) Historically, the current stormwater sewer system was used to deliver effluent from the Maintenance and Supply Area buildings to the IWL via four open ditches along B, C, D, and E Avenues between 1965 and 1988. Further north in the Maintenance and Supply Area, this system delivered effluent which reportedly discharged along the eastern side of the OSLs, along F, G, H, J, K, and L Avenues to the OIWL prior to 1965. 1b) Old pipe connections were used to connect buildings in the Maintenance and Supply Area to the new wastewater system. Some of the old pipe connections have visible signs of corrosion and deterioration. 1c) The Radiator Repair Facility is a potential source of contamination because of steam cleaning, caustic dip tanks, and general radiator repair activities that occur within. All of these operations are somewhat contained within the structure through the use of pollution controls; however, visual observations and the nature of operations within this structure indicate that the potential for contaminant releases exist.	Acids; caustics; solvents; paints; metals; ether; photographic chemicals; oil; petroleum hydrocarbons	A Site Investigation under the ongoing RFI is recommended to determine the environmental impacts of both portions of this AREE. These areas have recently been incorporated into the RFI program. 1a) Sample surface and subsurface soil at the outfalls to assess the impact of current and historical discharges. Sample discharge water to determine the nature of potential residual contamination. Visually inspect the integrity of the piping and conduct subsurface soil sampling if damage is noted. 1b) The old connections should be visually inspected to determine the integrity of the piping. Follow-up soil sampling should be conducted, as necessary. 1c) Conduct a limited site investigation of the Radiator Repair Facility to determine if operations within the structure have released contamination to surrounding surface and subsurface soils. Also, since the structure is scheduled for demolition in Fiscal Year 1997, the structural debris may need to be sampled for TCLP to determine the disposal method that is in compliance with RCRA land disposal regulations.	VOCs; SVOCs; and metals

NOTE: An acronym list is provided on the last page of this table.

AREE Number	Description	Building Numbers/Locations	Summary of Findings	Potential Contamination	Recommended Activity	Proposed Analyses
2	SWMU 47: Boiler Plant Blowdown Water	SWMU 47, including Buildings 606, 610, 637, and 691	Review of data collected during the Phase I RFI indicated metals and petroleum compounds have been released to the environment. Boilers at Buildings 606, 610, and 637 are connected to the IWTP system and no longer release contaminated boiler blowdown water to the environment. Building 691 still drains effluent to a nearby ditch.	Metals and petroleum compounds	Further study of SWMU 47 is recommended under the ongoing Phase II RFI. Soil sampling of the drainage ditch is recommended.	VOCs; SVOCs; and metals
3	SWMU 50: Compressor Condensate Drain	Building 619	Potential contamination of surface and subsurface soil may have occurred from effluent in a compressor condensate drain at Building 619. The drain is not connected to the IWTP and carries condensate that has been known to contain lubricating oil.	Petroleum hydrocarbons	A Site Investigation under the ongoing RFI is recommended. The compressor effluent and the surface and subsurface soil in the area sampled. The site has recently been incorporated into the RFI program.	VOCs and SVOCs
4	SWMU 51: Chromic Acid/Alodine Drying Beds	Concrete pads marked "623"	There are no documented releases associated with the concrete pads. Visual inspection indicated that they could have been used for liquid containment and drainage based on design. Interviews with on-post personnel indicated that engines may have been flushed at the site. Real property historical records review indicated that the pads were used for chromic acid/alodine drying in the 1970s.	Petroleum hydrocarbons; antifreeze; chromic acid; alodine	A Site Investigation under the ongoing RFI is recommended, including collection of surface and subsurface soil samples between the pads to investigate potential contamination. The site has recently been incorporated into the RFI program.	VOCs; SVOCs; and metals

NOTE: An acronym list is provided on the last page of this table.

AREE Number	Description	Building Numbers/Locations	Summary of Findings	Potential Contamination	Recommended Activity	Proposed Analyses
5	SWMUs 31, 32, and 53: PCB-Related Areas	SWMU 31 - Former Transformer Boxing Site (OSL 680) SWMU 32 - PCB Spill Site (OSL 665D) SWMU 53 - Soils at Buildings 659 and 679	Existing analytical results from surface soil composite samples indicate that PCBs are present at the PCB Spill Site (SWMU 32). The Former Transformer Boxing Site (SWMU 31) has no indications of spillage. No documented information was available concerning the soils outside Buildings 659 and 679 (SWMU 53).	PCBs	Further sampling at all three of the SWMUs is recommended as per requirements of the CERCLA and RCRA programs only.	NA
6	SWMUs 4 and 54: Sand Blast Areas	SWMU 4 - Current Operations: Buildings 600, 615, and 617 SWMU 54 - Past Operations: Buildings 603, 604, 612, 613, 637, and 647	Based on Phase I RFI sampling results, contamination of the environment has occurred from the sand blasting operations at Buildings 600, 615, and 617. During the ENPA site visits, other areas were identified where sand blast operations occurred in the past. These included Buildings 603, 604, 612, 613, 637, and 647.	Metals and paint compounds	It is recommended that Buildings 600, 615, and 617 be investigated further as is currently being done under the Phase II RFI. Areas used for sand blasting in the past should also be investigated under a Phase I RFI for releases to the environment. These areas have recently been incorporated into the RFI program.	Metals
7	SWMU 46: Waste Oil Dumpsters/Storage Tanks	Buildings 600, 602, 607, 611, 619, 620, 637, and 691	Based on Phase I RFI sampling results and visual inspection during the ENPA site visits, it is apparent that waste oil handling practices at the used oil dumpsters have released petroleum hydrocarbons to surface and shallow subsurface soils.	Petroleum hydrocarbons	It is recommended that SWMU 46 be investigated further as is currently being done under the Phase II RFI. Also, improved waste oil handling techniques should be implemented to prevent further contamination.	TRPH

NOTE: An acronym list is provided on the last page of this table.

Table 5-1. Summary of Findings and Recommendations for Further Action.

AREE Number	Description	Building Numbers/Locations	Summary of Findings	Potential Contamination	Recommended Activity	Proposed Analyses
8	SWMU 26: DRMO Area	Includes various structures and OSLs within the DRMO	Releases of contaminants to the surface and shallow subsurface soils at the DRMO have been documented. There is noticeable ground staining at some locations.	VOCs; polynuclear aromatic hydrocarbons; petroleum hydrocarbons; metals; and cyanide	Prior to excessing, all equipment and debris should be removed. The structures should be cleaned and decontaminated according to the installation's procedures for closing heavy industrial areas. It is recommended that SWMU 26 be investigated further as is currently being done under the Phase II RFI.	VOCs; SVOCs; and metals
9	SWMU 38: IWTP	Includes the area west of Building 713	There has been a known release of contamination to the environment from open GAC containers that were left open. The contents were blown over the ground on the west side of the IWTP facility.	VOCs; SVOCs; and metals	Based on the results of the Phase I RFI sampling, several contaminants appear to have been released to the soils in the vicinity of the spent GAC containers. It is recommended that SWMU 38 be investigated further under a Phase II RFI.	VOCs; SVOCs; and metals
10	Asbestos	Facility-wide	Numerous asbestos building surveys were completed during 1991 through 1992, and the installation's asbestos management plan was implemented in July 1992.	Asbestos	It is recommended that the installation continue to implement the asbestos management plan and document the changing status/condition of asbestos at the TEAD. Asbestos surveys are required for all structures within the BRAC parcel.	NA
11	PCB-Containing Transformers	Facility-wide	PCB-containing transformers are in use within the BRAC parcel.	PCBs	The installation has a PCB management plan and conducts annual inspection and maintenance. It is recommended that these practices be continued.	NA

NOTE: An acronym list is provided on the last page of this table.

Table 5-1. Summary of Findings and Recommendations for Further Action.

AREE Number	Description	Building Numbers/Locations	Summary of Findings	Potential Contamination	Recommended Activity	Proposed Analyses
12	USTs	Facility-wide	There are 13 regulated USTs within the BRAC parcel. There are over 100 USTs in the BRAC parcel, however, a leak detection program was implemented in 1989. In 1992, all emergency generator tanks were tightness tested. There are also numerous unregulated underground heating oil tanks located within the BRAC parcel.	Petroleum products	Continued implementation of the installation's UST management plan is recommended to maintain compliance with the State of Utah's UST regulations. Closure of all USTs no longer in use is also recommended. Additionally, a geophysical survey is recommended for the Administration Area south of the Main Entrance Road to ensure all heating oil tanks were removed when the residential area was demolished.	NA
13	ASTs	Facility-wide	Numerous ASTs exist throughout the BRAC parcel in both the Administrative and Maintenance and Supply Areas. Most are used to store heating oil. The condition of many of these is questionable, and most do not have containment systems. There is a potential for leakage. No facility-wide management plan is in place.	Petroleum products	It is recommended that the installation develop a facility-wide management plan that addresses AST compliance with the State of Utah's RCRA AST program.	NA
14	SWMU 52: Drain Field and Disposal Trenches	The drain field and disposal trenches are located at the northwest and southwest corners of the administration area, respectively	There are no indications of contamination at this site based on available information. However, based on the aerial photographic site analysis, it appears that disposal activities have occurred at these locations.	Construction debris, general refuse, sewage	A Site Investigation of the drain field and disposal trenches under the ongoing RFI is recommended, including soil sampling at both areas and a geophysical survey at the disposal trenches. These areas have recently been incorporated into the RFI program.	VOCs, SVOCs, Metals

NOTE: An acronym list is provided on the last page of this table.

AREE Number	Description	Building Numbers/Locations	Summary of Findings	Potential Contamination	Recommended Activity	Proposed Analyses
15	SWMU 55: Battery Shop	Building 618	There are no indications of contamination at this site based on available information. However, based on the historical records search, it appears that battery shop and plating operations have occurred at Building 618. The nature of these industrial operations render this facility worthy of investigation.	Metals	A Site Investigation of Building 618 under the ongoing RFI is recommended. It is recommended that soil samples be collected from the area surrounding the building and that a detailed historical background search be completed. This area has recently been incorporated into the RFI program.	Metals
16	SWMU 28: 90-Day Drum Storage Area	Buildings 588, 596, and 656	Drummed wastes are stored above ground on pallets. Drums remain sealed and are stored up to 90 days before transport to a permanent storage facility or a hazardous waste management facility. Contaminants have been released to the surface soils but widespread contamination is not likely.	Metals, organic compounds, petroleum hydrocarbons, and a variety of waste constituents stored on-site.	It is recommended that SWMU 28 be included in RFI Phase II activities. Soil borings are recommended to further characterize the vertical and horizontal extent of contamination.	VOCs; SVOCs; metals
17	SWMU 29: Drum Storage Areas	Buildings 576 and 589	The Drum Storage Areas were used to store empty drums before they were returned to the originating contractor. Empty drums were reportedly stored upside down to allow residual contents to drain and to keep precipitation out. Chemicals have been potentially released to the environment due to this practice. The facility has undergone both RI and RFI investigations. The results of these investigations indicate that various types of contaminants have been released to surface and subsurface soils.	Metals; phthalates; VOCs; SVOCs	It is recommended that RFI Phase I data be evaluated in the Phase II investigation to quantify health risks in a baseline risk assessment. Because present sample data provide analytical information for virtually the entire AREE, no additional sample collection is recommended.	NA

NOTE: An acronym list is provided on the last page of this table.

Table 5-1. Summary of Findings and Recommendations for Further Action.

AREE Number	Description	Building Numbers/Locations	Summary of Findings	Potential Contamination	Recommended Activity	Proposed Analyses
18	SWMUs 2 and 30: Conveyance Ditches and Lagoons	This AREE consists of various conveyance ditches and lagoons that have been identified through historical aerial photograph review or past investigations.	The OIWL (SWMU 30) conveyance ditches and lagoons area was found to be widely contaminated with metals. A TCE plume from the transport of maintenance area wastewater is probably present. The IWL (SWMU 2) conveyance ditches that are within the BRAC parcel are documented known sources of groundwater contamination. Subsurface soils, sludge, and groundwater within the Maintenance and Supply Area have been contaminated with waste stream constituents. The IWL conveyance ditches that are within the BRAC parcel have been remediated through contaminated soils excavation and replacement.	Metals; TCE; phenols; explosives	No further RFI investigations are recommended for the OIWL (SWMU 30). It is recommended that this SWMU be included in the Corrective Measures Study. No further RFI investigations are recommended for the IWL (SWMU 2) conveyance ditches. The contaminated soil removal and replacement of the conveyance ditches within this BRAC parcel is a remediation method that is in accordance with RCRA guidelines. As such, they are no longer considered a threat to the quality of the surrounding soils on the groundwater.	NA
19	Lead-Based Paint	Administration Area buildings, specifically Buildings S-101; S-103; S-104; S-110; S-111; S-113; S-115; S-117; S-118; S-119; S-120; S-121; S-122; S-123; S-124; S-125; S-126; S-141; S-143; S-145; S-147; S-149; S-150; S-151; S-152; S-153; S-155; 1000; 1001; 1002; 1004; 1005; 1010; and Tooele Valley High School	Depending on the selected re-use of the Administration Area buildings, target housing for lead-based paint may exist.	Lead	If the Administration Area buildings are used for target housing (residential use for children less than 6 years of age), Title X requirements of inspection and abatement are applicable.	NA

AREE Areas Requiring Environmental Evaluation
AST Above Ground Storage Tank
BRAC Base Realignment and Closure
CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
DRMO Defense Reutilization and Marketing Office
ENPA Enhanced Preliminary Assessment
GAC Granular Activated Charcoal
IWL Industrial Waste Lagoon
IWTP Industrial Wastewater Treatment Plant
NA Not Available
OIWL Old Industrial Waste Lagoon
OSL Open Storage Lot
PCB Polychlorinated biphenyl
RCRA Resource Conservation and Recovery Act
RFI RCRA Facility Investigation
SVOC Semivolatile Organic Compound
SWMU Solid Waste Management Unit
TCE Trichloroethylene
TCLP Toxicity Characteristic Leaching Procedure
TEAD Tooele Army Depot
TRPH Total Residual Petroleum Hydrocarbons
UST Underground Storage Tank
VOC Volatile Organic Compound

- ◊ AREEs 1a, 1b, and 1c: Old Wastewater Distribution System and Radiator Repair Facility (SWMU 49)
- ◊ AREE 3: Compressor Condensate Drain (SWMU 50)
- ◊ AREE 4: Chromic Acid/Alodine Drying Beds (SWMU 51)
- ◊ AREE 14: Drain Field and Disposal Trenches (SWMU 52)
- ◊ AREE 15: Battery Shop (SWMU 55)

Because of the complexity of AREE 1, the underground location of a major portion of the system, and the likely potential for past and current releases of significant contamination, a more extensive site investigation is recommended for the Old Wastewater Distribution System. Parts of this system are still in use within the new wastewater system.

Six AREEs are currently being studied under the Phase II RFI conducted by SAIC, as follows:

- ◊ AREE 2: Boiler Plant Blowdown Water (SWMU 47)
- ◊ AREE 7: Waste Oil Dumpsters/Storage Tanks (SWMU 46)
- ◊ AREE 8: DRMO Yard (SWMU 26)
- ◊ AREE 9: IWTP (SWMU 38)
- ◊ AREE 16: 90-Day Drum Storage Area (SWMU 28)
- ◊ AREE 17: Drum Storage Areas (SWMU 29)

Recommendations for these AREEs were made in accordance with the Phase I RFI recommendations.

One AREE, AREE 6 (Sand Blast Areas), expanded the current RFI investigation of sand blast areas from current operations only (SWMU 4) to include past operations (SWMU 54) as well. Recommendations for the past operations areas were made in accordance with the RFI investigations of current operations areas.

One AREE, AREE 5 (PCB-Related Areas), includes three SWMUs (SWMUs 31, 32, and 53) undergoing investigation under the ongoing CERCLA RI and RCRA RFI. Recommendations for this AREE are consistent with those under the CERCLA and RCRA programs.

One AREE, AREE 18 (Conveyance Ditches and Lagoons - SWMUs 2 and 30) has been studied under a Phase II RFI and is recommended for inclusion in the CMS which is consistent with Phase II RFI recommendations. Additional sampling is recommended for portions of SWMU 2 for property transfer purposes.

The remaining five AREEs were designated facility-wide. These included Asbestos (AREE 10), PCB-Containing Transformers (AREE 11), USTs (AREE 12), and ASTs (AREE 13). Lead-based paint (AREE 19) is also included in this group, but is restricted to housing in the Administration Area. Continued implementation of existing management plans was recommended for AREEs 10, 11, and 12. Creation and implementation of a management plan for ASTs (AREE 13) was also recommended. Implementation of applicable regulations for AREE 19 was recommended depending on the results of the Community Re-Use Plan.

Finally, other areas within the BRAC were considered as part of the ENPA but not designated as AREEs. These include five SWMUs that have been documented in past investigations, but are designated as no further action SWMUs or potential no further action SWMUs:

- Storage Tank for TCE (SWMU 44)
- Former Transformer Storage Area (SWMU 17)
- PCB Storage Building 659 (SWMU 33)
- Drummed Radioactive Waste Area (SWMU 9)
- Radioactive Waste Storage Building (SWMU 18)

Also, five installation-based considerations that are not considered AREEs are identified. Specifically, these areas of concern do not indicate a release to the environment but may affect the expeditious transfer of the property, and thus should be addressed by the installation rather than through the CERCLA or RCRA processes. These include the following areas:

- Smaller 90-Day Collection Yards
- General Maintenance Building Condition (numerous structures)
- Radon
- UXO
- Spills

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APPENDIX A

SPILL REPORT

TOOELE ARMY DEPOT

SPILL INCIDENT SUMMARY REPORT

	DATE SPILL REPORTED	SPILL MATERIAL	QTY SPILLED/ UNITS	RPTBL QTY	PERSON RESPONDING	SPILL SOURCE
	12/13/90	DIESEL FUEL	80/GL	N	BARTON, DALE	TRUCK JACK KNIFED ON ROAD RUPTURING FUEL TANK--SAVAGE TRUCKING
	12/17/90	CHEMICAL	40/GL	N	ISSAC, RICHARD	WATER RINSE LINE EXITING BUILDING 1345, 40 GL DAY FOR 1-2 MOS
	01/02/91	DIESEL FUEL	70/GL	N	COMPTOM, DOUG	DIESEL FUEL FROM TANKER TRUCK
*	02/04/91	RUST REMOVER	40/GL	N	SCHIESS, MAX	615 PRODUCT STORAGE - LEAKING DRUM
*	02/07/91	SODIUM HYDROXIDE	10/GL	N	SCHIESS, MAX	615 SODIUM HYDROXIDE TANK WAS ALLOWED TO BOIL OVER
	02/10/91	BATTERY ACID	15/GL	N	MENTZER, CINDA	FORK LIFT BATTERY OPENED UP WHEN FORK LIFT TURNED OVER
*	02/21/91	PCB	5/ML	N	OWENS, JONATHAN	TRANSFORMER AT MAP LOCATION 183
	02/21/91	PCB	1/QT	N	OWENS, JONATHAN	TRANSFORMER AT MAP LOCATION 55
	02/27/91	1252	2/QT	N	MENTZER, CINDA	15 GAL DRUM WITH LID OFF IN THE SHED BEHIND BATTERY SHOP BLDG
	03/21/91	LATEX PAINT	30/GL	N	SCHIESS, MAX	LATEX PAINT CONTAINER SLIPPED OFF FORKLIFT FORKS
	03/26/91	DIESEL FUEL	0/UK	N	MAX, SCHIESS	FUEL GAUGE BROKEN ON BOILER
	04/02/91	CARBON REMOVING COMPOUND	5/GL	N	COMPTON, DOUG	HOLE IN TANK DRAIN
	04/22/91	RECYCLED WATER	200/GL	N	DOUG, COMPTON	BROKEN PIPE
	04/22/91	RECYCLED WATER	200/GL	N	TURNER, TOM	RECYCLED WATER PIPE BREAK/LEAK

* Spill location within BRAC parcel

05/01/91 DIESEL FUEL	15/GL	N	TURNER, TOM	FUEL TANK OVERFILLED
05/02/91 LATEX PAINT	30/GL	N	COMPTON, DOUG	LATEX PAINT CANS FELL OFF PALLET DURING UNLOADING
05/16/91 OIL	3/GL	N	COMPTON, DOUG	OIL FROM 55 GAL DRUMS
05/16/91 STODDARD SOLVENT	15/GL	N	SCHIESS, MAX	STODDARD TANKS LEAKED AFTER BEING FILLED
❄ 07/12/91 POLY PAINT	35/GL	N	SCHIESS, MAX	POLY PAINT FROM PAINTING OPERATIONS AT BLDG 615
❄ 07/12/91 POLY PAINT	35/GL	N	SCHIESS, MAX	MOVEMENT OF PAINT TO 594 BUCKETS FELL OFF TRUCK
07/16/91 RECYCLED WATER, METHYLENE CHLORIDE	5000/GL	N	SCHIESS, MAX	BREAK IN PIPE, RECYCLED WATER,METHYLENE CHLORIDE

❄ Spill location within BRAC parcel

10/07/93

TOOELE ARMY DEPOT
SPILL INCIDENT SUMMARY REPORT

	DATE SPILL REPORTED	SPILL MATERIAL	QTY SPILLED/ UNITS	RPTBL QTY	PERSON RESPONDING	SPILL SOURCE
	07/22/91	CONTAINS METALS NON-HAZ	200/GL	N	TURNER, TOM	PIPE FROM DYNOS TO OIL SEPARATOR BROKEN BY BACKHOE
*	07/26/91	RELEASE WATER WITH TRACE METHYLENE CHLORIDE	6/LB	N	WOODWORTH, DAVID	COOLING TOWER ON EAST SIDE 637, FLOAT VALVE ALLOWED LEAKAGE
	07/30/91	DIESEL, TRANSMISSION FLUID	10/GL	N	COMPTON, DOUG	TRUCK OVERTURNED, SPILLED DIESEL AND TRANSMISSION FLUID
	07/30/91	UNLEADED GASOLINE	20/GL	N	TURNER, TOM	OVERFILL OF TANK WITH UNLEADED GASOLINE
	08/06/91	ROAD PAINT	5/GL	N	BLACK, CHRISTI	5 GAL BUCKET OF ROAD PAINT DROPPED FROM PASSING VEHICLE
	08/08/91	ENAMEL PAINT	1/GL	N	WEDER, DENNIS	ENAMEL PAINT - A GALLON CAN
	08/12/91	SODIUM HYDROXIDE	75/GL	N	SCHIESS, MAX	TANK BOIL OVER
	08/20/91	DIESEL	15/GL	N	COMPTON, DOUG	VALVE LEAK ON DIESEL TANK
	09/03/91	BATTERY ACID	5/GL	N	BLACK, CHRISTI	BATTERIES
*	11/19/91	RECYCLED WATER	0/GL	N	SCHIESS, MAX	BLD 609
	01/21/92	PAINT AND BATTERY ELECTROLYTE	80/GL	N	NASH, LOUIS	OVERLOADED FORKLIFT TIPPED OVER DROPPING A PALLET OF PAINT
	01/28/92	SODIUM HYPOCHLORIDE	35/LB	N	TURNER, TOM	DRUM OF SODIUM HYPOCHLORIDE WAS TIPPED OVER BY FORKLIFT DRIVER
	01/29/92	OIL & WATER	50/GL	N	WOODWORTH, DAVID	DUMPSTER CONTAINING USED OIL AND WATER
	01/30/92	DIESEL FUEL	40/GL	N	SCHIESS, MAX	BROKEN FUEL LINE FOR EMERGENCY GENERATOR BLDG.

* Spill location within BRAC parcel

					#1800
	04/23/92	SODIUM HYDROXIDE	4100/GL	Y	PAULICK, STEW	SITE GLASS ON THE TANK BROKE, LIQUID FR/TANK SPILLED ON GROUND
	05/04/92	#2 DIESEL	20/GL	N	BRACKEN, STEVE	HEMITT TANKER
	05/11/92	PROPELLANT SLUDGE 90MM ROUNDS	5/GL	N	LONG, GENE	POWDER HOUSE, VACCUM COLLECTION SYSTEM
✲	05/11/92	SODIUM HYDROXIDE	100/GL	N	LONG, GENE	CHEMICAL LINE SODIUM HYDROXIDE TANK
	06/10/92	II CAT RES. PAINT	3/GL	N	BRACKEN, STEVE	PAINT CANS 1 GALLON

✲ Spill location within BRAC parcel

TOOELE ARMY DEPOT
SPILL INCIDENT SUMMARY REPORT

	DATE SPILL REPORTED	SPILL MATERIAL	QTY SPILLED/ UNITS	RPTBL QTY	PERSON RESPONDING	SPILL SOURCE
	07/08/92	MUSTARD (HD)	50/MG	N	WOODWORTH, DAVE	TON CONTAINER
	07/15/92	DIESEL FUEL	30/GL	N	LONG, GENE	HEMIT TANKER
	07/16/92	DIESEL FUEL	60/GL	N	LONG, GENE	FUEL TANK ON CONTRACTORS TRUCK
	07/23/92	SULFURIC ACID - NEW BATTERIES	2/GL	N	LONG, GENE	BATTERIES - 6 EA.
	07/23/92	DIESIL FUEL	5/GL	N	LONG, GENE	FLORKLIFT TRIPPED OVER, FUEL LEAKED OUT OF FUEL TANK
*	07/27/92	SODIUM HYDROXIDE	75/GL	N	SCHIESS, MAX	BOILED OVER SODIUM HYDROXIDE TANK BLDG 637
	08/11/92	MINERAL OIL	25/GL	N	BLACK, CHRISTI	CURCUIT RECLOSER WAS KNOCKED OVER AND TOP WAS BROKEN
	09/03/92	CARBON REMOVING COMPOUND 81% METHLYNE CHLORID	55/GL	N	BRACKEN, STEVE	CARBON REMOVING COMPOUND CONTENT ATE THRU DRUMS 81% METH CHLOR
	09/22/92	WATER ANTIFREEZE MIXTURE	30/GL	N	BRACKEN, STEVE	BROKEN RADIATOR HOSE ON 25 TON TRACTOR
	12/30/92	GAS	5/GL	N	TOMAC, MATTHEW	UTILITY TRUCK GAS TANK
	01/05/93	14% SOLUTION PHOSPORIC ACID	100/GL	N	SCHIESS, MAX	CHEMICAL LINE
	01/07/93	CAUSTIC SODA	150/GL	N	BLACK, CHRISTI	FAULTY VALVE
	03/10/93	ANTIFREEZE/OIL	20/GL	N	LONG, GENE	HANDLING OF 600 GALLON TANK
	03/17/93	STODDARD SOLVENT	4/GL	N	WILLIAMS, KENT	LEAKING VALVE

* Spill location within BRAC parcel

04/07/93 HYDRAULIC OIL	10/GL	N	LONG, GENE	HOSE ON TRUCK BROKE
04/27/93 SMUT GO	3/GL	N	WILLIAMS, KENT	LEAKING DRUMS
04/29/93 KEROSENE	5/GL	N	TOMAC, MATT	SOLVENT TANK
05/06/93 BATTERY ACID	1/QT	N	RASMUSSEN, ROGER	BROKEN FORKLIFT BATTERY. BATTERY WAS DROPPED
06/17/93 10 WT. OIL	4/GL	N	LONG, GENE	BROKEN HOSE ON RT FORKLIFT
06/23/93 MINERAL OIL<2PPM. PCB	340/GL	N	TURNER, TOM	BROKEN VALVE ON TRANSFORMER
06/24/93 NEW DIESEL FUEL	30/GL	N	LONG, GENE	VALVE ON FUEL TANKER STUCK OPEN

10/07/93

TOOELE ARMY DEPOT
SPILL INCIDENT SUMMARY REPORT

	DATE SPILL REPORTED	SPILL MATERIAL	QTY SPILLED/ UNITS	RPTBL QTY	PERSON RESPONDING	SPILL SOURCE
*	07/12/93	WASTE OIL	10/GL	N	BRACKEN, STEVE	WASTE OIL DUMPSTER
	07/21/93	F SOLVENT/WATER FROM AQUIFER	1800/GL	N	LEVI, WALTON	GWTP EXTRACITON WELL E-6 & HOLDING POND PIPING
	08/02/93	DIESEL FUEL	50/GL	N	LONG, GENE	BROKEN VALVE ON FUEL TANK
	09/09/93	MUSTARD	76/GL	Y	WOODWORTH, DAVID	MUSTARD TON CONTAINER
	09/23/93	DIESEL FUEL	30/GL	N	LONG, GENE	BROKEN VALVE ON HEMMETT
	09/23/93	BATTERY ELECTROLYTE	1/GL	N	RASMUSSEN, ROGER	BATTERY WAS DROPPED & BROKEN
	10/04/93	DIESEL FUEL	250/GL	N	TRUJILLO, RICHARH	OVERFLOW LINE FROM EMR. GEN. AND LEAKING PIPE

* Spill location within BRAC parcel

APPENDIX B

LIST OF PERSONNEL INTERVIEWED FOR THE ENHANCED PRELIMINARY ASSESSMENT

Table B-1. List of People Interviewed.

No.	Date	Name	Title	Organization
1	10/12/93	Larry McFarland	BRAC Environmental Coordinator	TEAD - Environmental Office
2	10/12/93	Larry Fisher	Environmental Engineer	TEAD - Environmental Office
3	10/12/93	Walton Levi	Environmental Engineer	TEAD - Environmental Office
4	10/12/93	Mike Strong	Environmental Engineer	TEAD - Environmental Office
5	10/12/93	Dean Higley	Environmental Engineer	TEAD - Environmental Office
6	10/12/93	Al Porter	Program Analyst	TEAD - Environmental Office
7	10/13/93	Diana Lujan	Supervisor - Bldg. 1000	TEAD
8	10/13/93	David Wayland	Technician - Bldg. 1011	TEAD
9	10/13/93	Sergeant Dennison	NA	Utah National Guard
10	10/13/93	Julie Robbins	Hazardous Waste Specialist - Bldg. 615	TEAD
11	10/13/93	Max Schiess	Environmental Protection Specialist	TEAD - Environmental Office
12	10/14/93	Monty Rashwan	Environmental Engineer	TEAD - Environmental Office
13	10/14/93	Dave Bleazard	Chief, Planning Branch	Defense Logistics Agency
14	10/14/93	Ron Levitt	Warehousing Foreman	Defense Logistics Agency
15	10/14/93	Pat Neugent	Warehouseman - Bldg. 659	Defense Logistics Agency
16	10/14/93	Judy Holman	Process Planner for Hazardous Materials	Defense Logistics Agency
17	10/14/93	John Harless	Front Desk Clerk - Bldg. 1004	TEAD
18	10/21/93	Bryce Christansen	Radiation Protection Officer	TEAD - Safety Office
19	10/13/93	Brad Maulding	Compliance Specialist - RCRA	State of Utah RCRA Office
20	10/13/93	Dave Larson	TEAD Lead - RCRA	State of Utah RCRA Office
21	10/13/93	Donald Jones	Plant Manager	TEAD - Vehicle Remanufacturing Facility
22	10/13/93	Richard Perrella	Hazardous Waste Specialist - Bldg. 619 & 602	TEAD
23	10/13/93	Jerry Dugdale	Hazardous Waste Specialist - Bldg. 612	TEAD
24	10/13/93	Ruth Olson	Assistant to Lloyd Laycock	TEAD
25	10/13/93	Lloyd Laycock	Consolidated Maintenance Facility Common Area Project Manager	TEAD
26	10/14/93	Mike Powell	Manager - Battery Repair and Charging Shop	TEAD

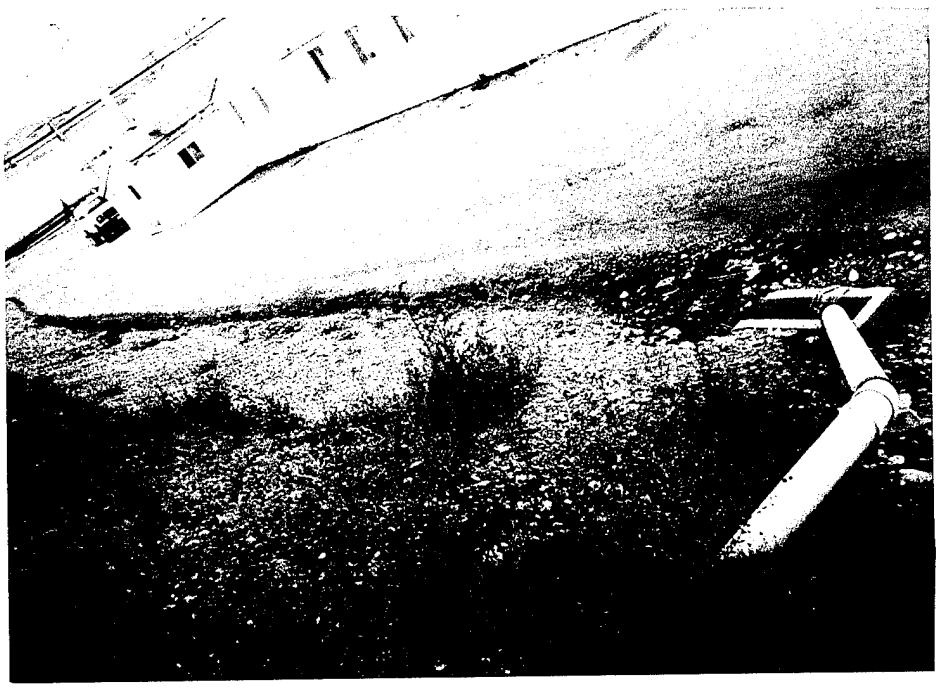
Note: An acronym list is provided on the last page of this table.

No.	Date	Name	Title	Organization
27	10/15/93	Nancy Johnson	Records Specialist	State of Utah CERCLA and Environmental Response Branch
28	10/25/93	Steve Cash	General Engineer	TEAD - Facilities Office
29	10/25/93	Dorinda Benson	Real Property Technician/Specialist	TEAD - Facilities Office
30	10/25/93	Bob Kinsinger	Mechanical Engineer	TEAD - Facilities Office
31	10/25/93	Robert Marshall	Engineering Technician	TEAD - Facilities Office
32	10/25/93	Randy Tyler	Civil Engineer	TEAD - Facilities Office
33	10/25/93	Pat Sullivan	Chemical Engineer	TEAD - Facilities Office
34	10/25/93	Tom Ware	Utilities Branch Chief	TEAD
35	10/25/93	Roy Fraiser	Depot Photographer	TEAD - Photo Lab
36	10/25/93	Red Ridder	DRMO Assistant	TEAD
37	10/25/93	Louis Brems	Chief, DRMO Operations	TEAD
38	10/26/93	Brian Slade	Environmental Health Scientist	Tooele County Health Department
39	10/26/93	J. Raymond Johnson	Professional Engineer, Director	Tooele County Department of Engineering
40	10/27/93	Various Clerks	Engineer's Assistants	City of Tooele Engineer's Office
41	10/28/93	Anne Kelly	Database Coordinator	TEAD - Environmental Office
42	10/07/93	Henry Schroeder	TEAD CERCLA Lead/Remedial Project Manager	EPA Region VIII CERCLA Office
43	10/07/93	Stan Zanistowski	TEAD RCRA Lead	EPA Region VIII RCRA Office
44	10/26/93	Bob Pannunzio	Boiler Plant Operator	TEAD
45	10/26/93	Gary Poloskey	Plumber	TEAD
46	11/10/93	Jeff Coombs	Inspector	Tooele County Health Department
47	11/08/93	Russ Flint	Hazardous Waste Manifest Coordinator	TEAD-DRMO

Bldg. Building
CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
DRMO Defense Reutilization and Marketing Office
EPA U.S. Environmental Protection Agency
NA Not Available
No. Number
RCRA Resource Conservation and Recovery Act
TEAD Tooele Army Depot

APPENDIX C

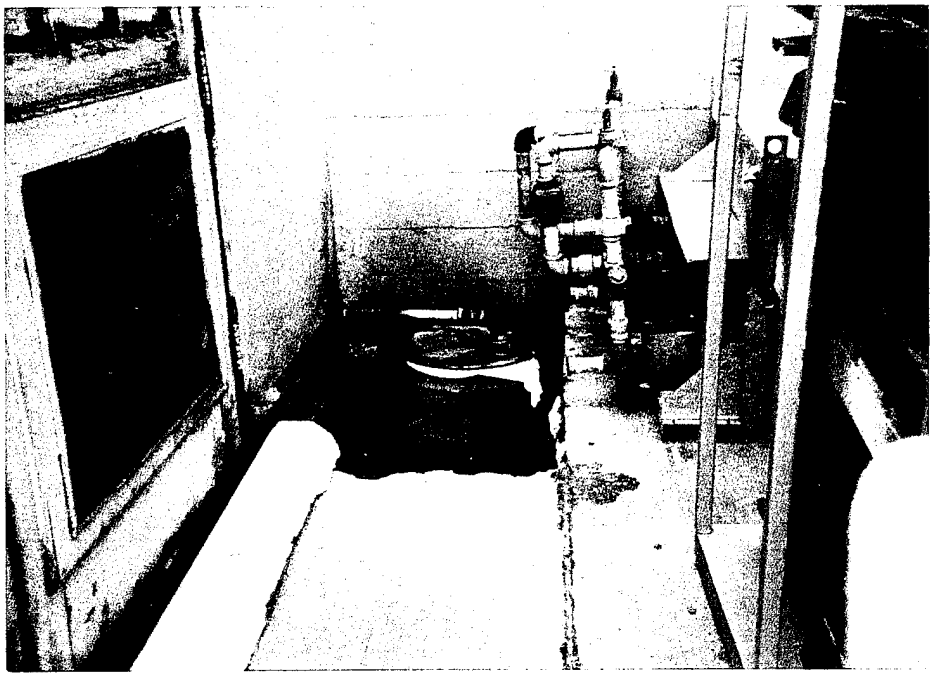
PHOTOGRAPHS OF AREAS REQUIRING ENVIRONMENTAL EVALUATION



Photograph 1. (AREE 1a - Current Stormwater Sewer System). View Southwest of Storm Drainage Outfall Near Building 614.

Photograph 2. (AREE 1c - Radiator Repair Facility). View of the Radiator Repair Facility in Building 609.

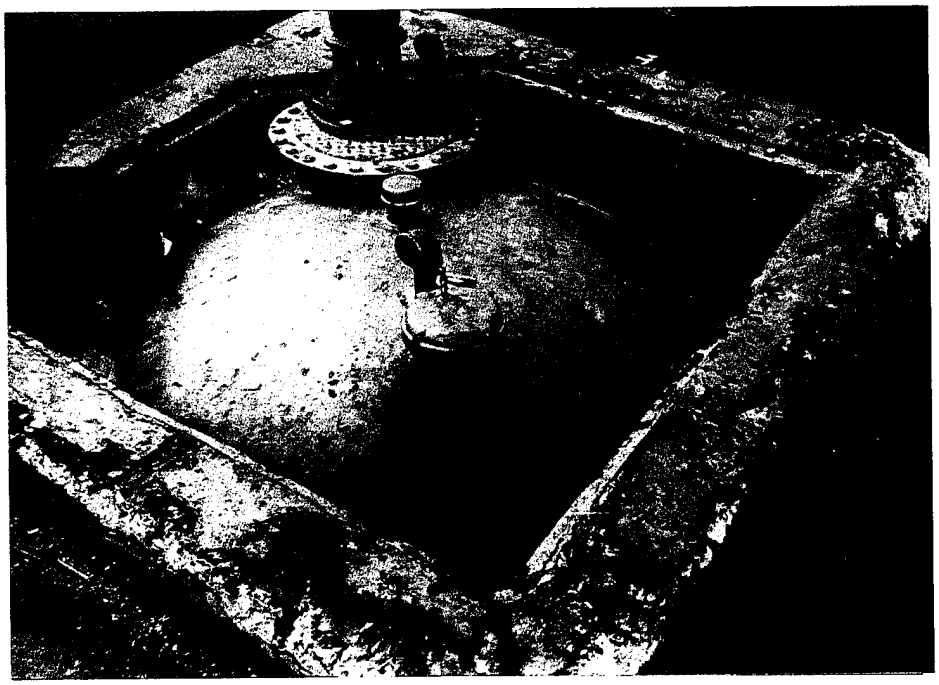
Photograph 3. (AREE 2 - SWMU 47: Boiler Plant Blowdown Water). View of Boiler Blowdown Sump in Building 637.



Photograph 4. (AREE 3 - Compressor Condensate Drain). View East of Compressor Condensate Drainage System Outside Building 619.

Photograph 5. (AREE 4 - SWMU 51: Chromic Acid/Alodine Drying Beds). View Northwest of Chromic Acid/Alodine Drying Beds Marked as Building 623.

Photograph 6. (AREE 6 - SWMU 4: Sand Blast Areas). View South of Building 615 Sand Blast Grit Collection Area.

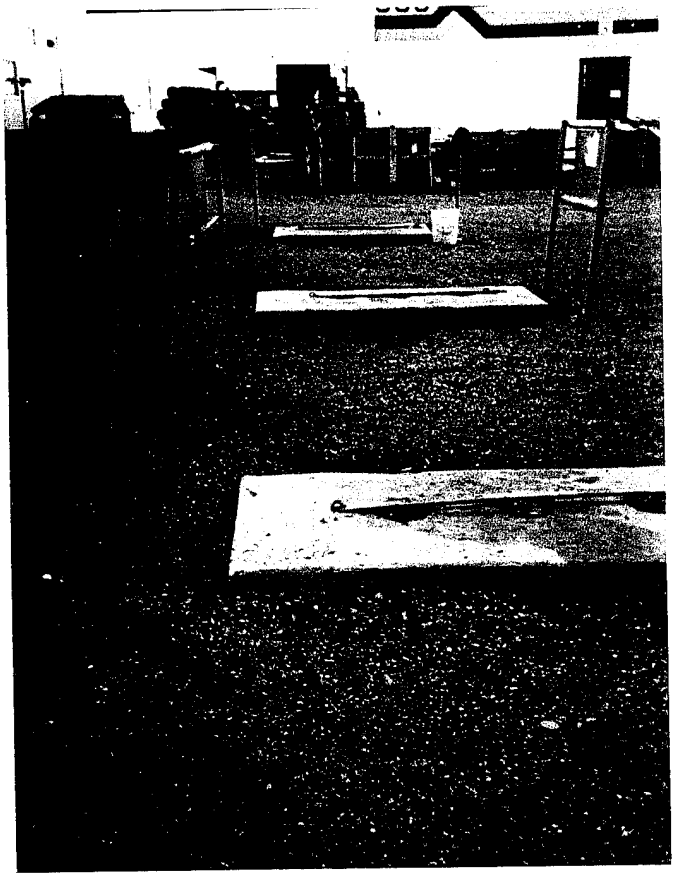


Photograph 7. (AREE 7 - SWMU 46: Waste Oil Dumpsters/Storage Tanks). View of Used Oil Tank at the North End of Building 637.

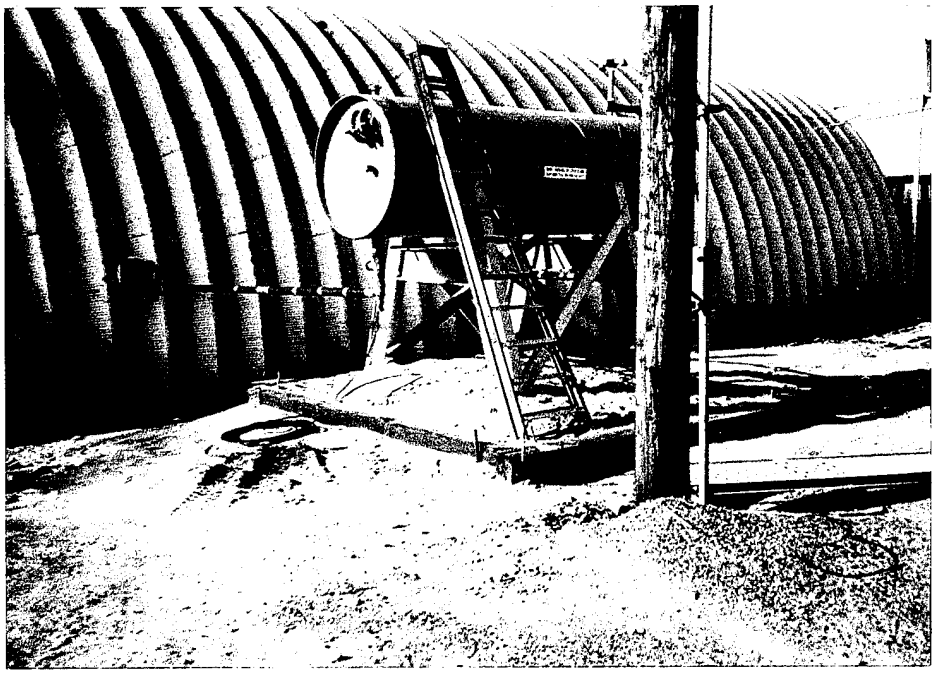
Photograph 8. (AREE 7 - SWMU 46: Waste Oil Dumpsters/Storage Tanks). View of Underground Used Oil Tank at the South End of Building 637.

Photograph 9. (AREE 8 - SWMU 26: Defense Reutilization and Marketing Office Area). View North of the Defense Reutilization and Marketing Office Yard.

Photograph 10. (AREE 8 - SWMU 26: Defense Reutilization and Marketing Office Area). View North of 90mm Shell Casings Awaiting Sale in the Defense Reutilization and Marketing Office Yard.

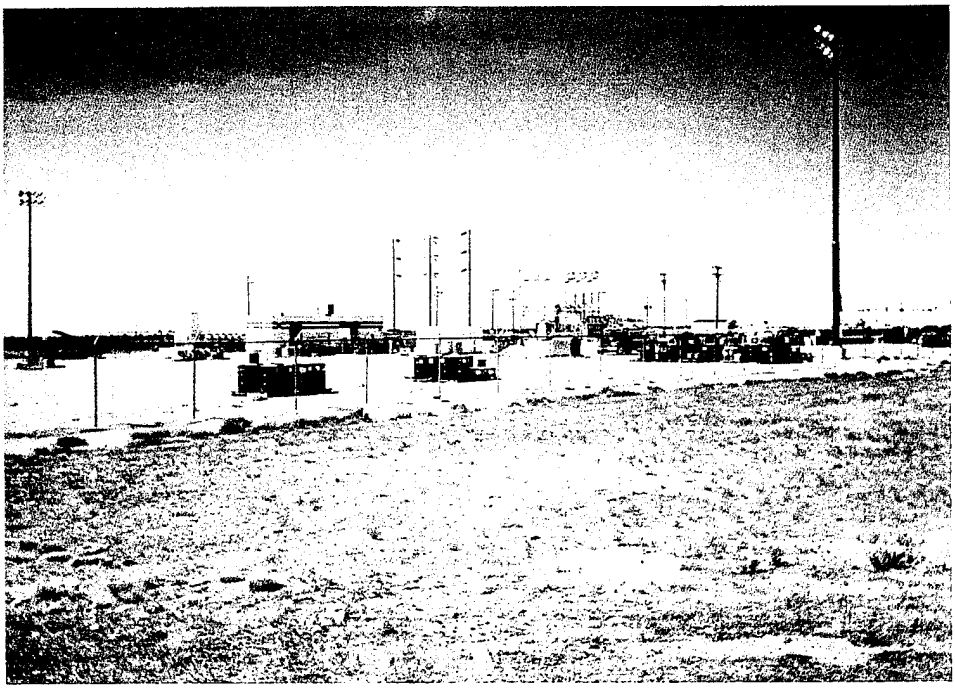


Photograph 11. (AREE 12 - Underground Storage Tanks). View South of Three Underground Storage Tanks Adjacent to Building 606.



Photograph 12. (AREE 13 - Above Ground Storage Tanks). View Southwest of 1,500-Gallon Above Ground Diesel Storage Tank with Staining at the Base Adjacent to the Building on Open Storage Lot 655-5.

Photograph 13. (AREE 15 - SWMU 55: Battery Shop). View of the Former Location of the Battery Shop in Building 618.



Photograph 14. (AREE 16 - SWMU 28: 90-Day Drum Storage Area). View Towards the Northwest of the 90-Day Drum Storage Area.

Photograph 15. (AREE 17 - SWMU 29: Drum Storage Areas). View to the Northeast of the Drum Storage Areas.

Photograph 16. (AREE 18 - SWMUs 2 and 30: Conveyance Ditches and Lagoons). View to the Southeast of the Location of a Former Drainage Ditch Along Avenue E.

APPENDIX D

BRAC PARCEL ASBESTOS INVENTORY

ASBESTOS AUDIT

ASBESTOS DATABASE FIELD DATA
PROJECT NO: 08545 TEAD, UTAH -NORTH
REPORT DATE: 01/31/91

BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
HOUSING	NORTH BASE HOUS	101C-01-01	2-27-90	KITCHEN	NONE DETECTED	Y	250.	SF	INSULATION ABOVE CEILING	N/A
HOUSING	NORTH BASE HOUS	101C-01-02	2-27-90	KITCHEN	NONE DETECTED	Y	250.	SF	INSULATION ABOVE CEILING	N/A
HOUSING	NORTH BASE HOUS	101C-01-03	2-27-90	KITCHEN	NONE DETECTED	Y	250.	SF	INSULATION ABOVE CEILING	N/A
HOUSING	NORTH BASE HOUS	101C-02-01	2-27-90	KITCHEN	15% CHRY	N	500.	SF	FLOOR TILE	O&M
HOUSING	NORTH BASE HOUS	101C-02-02	2-27-90	KITCHEN	15% CHRY	N	500.	SF	FLOOR TILE	O&M
HOUSING	NORTH BASE HOUS	101C-02-03	2-27-90	KITCHEN	15% CHRY	N	500.	SF	FLOOR TILE	O&M
HOUSING	NORTH BASE HOUS	101C-03-01	2-27-90	BATHROOM	20% CHRY	N	100.	SF	FLOOR TILE	O&M
HOUSING	NORTH BASE HOUS	101C-03-02	2-27-90	BATHROOM	20% CHRY	N	100.	SF	FLOOR TILE	O&M
HOUSING	NORTH BASE HOUS	101C-03-03	2-27-90	BATHROOM	20% CHRY	N	100.	SF	FLOOR TILE	O&M
HOUSING	NORTH BASE HOUS	102A-01-01	2-27-90	THROUGHOUT	5% CHRY	N	800.	SF	9X9 FLOOR TILE	O&M
HOUSING	NORTH BASE HOUS	103A-01-01	2-27-90	BATHROOM	10% CHRY	N	10.	SF	9X9 FLOOR TILE	O&M
HOUSING	NORTH BASE HOUS	103A-02-01	2-27-90	THROUGHOUT	NONE DETECTED	N	35.	LF	BASEBOARD	N/A
HOUSING	NORTH BASE HOUS	103A-03-01	2-27-90	KITCHEN	NONE DETECTED	N	50.	SF	12X12 FLOOR TILE	N/A
HOUSING	NORTH BASE HOUS	105A-01-01	2-27-90	BATHROOM	10% CHRY	N	20.	SF	9X9 FLOOR TILE	O&M
0101	ADMIN GEN PURPO	101-01-01	02-27-90	THROUGHOUT	<1% CH	N	1680.	SF	WHITE 12 X 12 FLOOR TILE	O&M
0101	ADMIN GEN PURPO	101-01-02	02-27-90	THROUGHOUT	2% CH	N	1680.	SF	WHITE 12 X 12 FLOOR TILE	O&M
0101	ADMIN GEN PURPO	101-01-03	02-27-90	THROUGHOUT	2% CH	N	1680.	SF	WHITE 12 X 12 FLOOR TILE	O&M
0101	ADMIN GEN PURPO	101-02-01	02-27-90	MECHANICAL ROOM	30% CH	N	120.	SF	TRANSITE PANELS	O&M
0101	ADMIN GEN PURPO	101-02-02	02-27-90	MECHANICAL ROOM	30% CH	N	120.	SF	TRANSITE PANELS	O&M
0101	ADMIN GEN PURPO	101-02-03	02-27-90	MECHANICAL ROOM	30% CH	N	120.	SF	TRANSITE PANELS	O&M
0101	ADMIN GEN PURPO	101-03-01	02-26-90	EXTERIOR	30% CH	N	2000.	SF	TRANSITE SIDING	O&M
0101	ADMIN GEN PURPO	101-03-02	02-26-90	EXTERIOR	30% CH	N	2000.	SF	TRANSITE SIDING	O&M
0101	ADMIN GEN PURPO	101-03-03	02-26-90	EXTERIOR	30% CH	N	2000.	SF	TRANSITE SIDING	O&M
0101	ADMIN GEN PURPO	101-04-01	02-26-90	THROUGHOUT	N.D.	N	400.	LF	COVE BASE	N/A
0101	ADMIN GEN PURPO	101-04-02	02-26-90	THROUGHOUT	N.D.	N	400.	LF	COVE BASE	N/A
0101	ADMIN GEN PURPO	101-04-03	02-26-90	THROUGHOUT	N.D.	N	400.	LF	COVE BASE	N/A
0101	ADMIN GEN PURPO	101-05-01	02-26-90	THROUGHOUT	N.D.	Y	4000.	SF	SHEET ROCK AND MUD	N/A
0101	ADMIN GEN PURPO	101-05-02	02-26-90	THROUGHOUT	N.D.	Y	4000.	SF	SHEET ROCK AND MUD	N/A
0101	ADMIN GEN PURPO	101-05-03	02-26-90	THROUGHOUT	N.D.	Y	4000.	SF	SHEET ROCK AND MUD	N/A
0103	CHAPEL	103-01-01	11-14-90	ENTRY	N.D.	N	50.	SF	LINOLEUM AND MASTIC	N/A

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BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
0104	PUB	104-09-01	03-06-90	RESTROOM	10% CH	Y	500.	SF	BLACK 9 X 9 F.T. GRAY UND	O&M
0104	PUB	104-09-02	03-06-90	RESTROOM	3% CH	Y	500.	SF	BLACK 9 X 9 F.T. GRAY UND	O&M
0104	PUB	104-09-03	03-06-90	RESTROOM	3% CH	Y	500.	SF	BLACK 9 X 9 F.T. GRAY UND	O&M
0104	PUB	104-10-01	07-26-90	EXTERIOR	ASSUMED POSITIVE	N	5000.	SF	TRANSITE SIDING	O&M
0104	PUB	104-11-01		THROUGHOUT	N.D.	N	1000.	LF	COVE BASE	N/A
0104	PUB	104-11-02		THROUGHOUT	N.D.	N	1000.	LF	COVE BASE	N/A
0104	PUB	104-11-03		THROUGHOUT	N.D.	N	1000.	LF	COVE BASE	N/A
0104	PUB	104-12-01	11-14-90	FRONT OFFICE	N.D.	Y	1000.	SF	SHEET ROCK AND MUD	N/A
0104	PUB	104-12-02	11-14-90	FRONT OFFICE	N.D.	Y	1000.	SF	SHEET ROCK AND MUD	N/A
0104	PUB	104-12-03	11-14-90	FRONT OFFICE	N.D.	Y	1000.	SF	SHEET ROCK AND MUD	N/A
0104	PUB	104-13-01		UNDER LINOLEUM	N.D.	N	5100.	SF	LINOLEUM MASTIC	O&M
0104	PUB	104-13-02		UNDER LINOLEUM	25% CH	N	5100.	SF	LINOLEUM MASTIC	O&M
0104	PUB	104-13-03		UNDER LINOLEUM	25% CH	N	5100.	SF	LINOLEUM MASTIC	O&M
0104	PUB	104-14-01		RESTROOMS	TRACE CH	N		SF	FLOOR TILE MASTIC	O&M
0104	PUB	104-14-02		RESTROOMS	TRACE CH	N		SF	FLOOR TILE MASTIC	O&M
0104	PUB	104-14-03		RESTROOMS	N.D.	N		SF	FLOOR TILE MASTIC	O&M
0108	DINING	108-01-01	02-26-90	BOILER ROOM	N.D.	Y	5.	SF	BOILER GASKET	N/A
0108	DINING	108-01-02	02-26-90	BOILER ROOM	N.D.	Y	5.	SF	BOILER GASKET	N/A
0108	DINING	108-02-01	02-26-90	DINING AREA	5% CH	N	2000.	SF	TAN VAT	O&M
0108	DINING	108-02-02	02-26-90	DINING AREA	5% CH	N	2000.	SF	TAN VAT	O&M
0108	DINING	108-02-03	02-26-90	DINING AREA	1% CH	N	2000.	SF	TAN VAT	O&M
0108	DINING	108-03-01	02-26-90	DINING AREA	N.D.	Y	1500.	SF	LEVELING COMPOUND	N/A
0108	DINING	108-03-02	02-26-90	DINING AREA	N.D.	Y	1500.	SF	LEVELING COMPOUND	N/A
0108	DINING	108-04-01	02-26-90	DINING AREA	N.D.	Y	1200.	SF	CEILING TILE	N/A
0108	DINING	108-04-02	02-26-90	DINING AREA	N.D.	Y	1200.	SF	CEILING TILE	N/A
0108	DINING	108-04-03	02-26-90	DINING AREA	N.D.	Y	1200.	SF	CEILING TILE	N/A
0108	DINING	108-05-01	11-13-90	DINING AREA	N.D.	N	300.	LF	COVE BASE	N/A
0108	DINING	108-05-02	11-13-90	DINING AREA	N.D.	N	300.	LF	COVE BASE	N/A
0108	DINING	108-05-03	11-13-90	DINING AREA	N.D.	N	300.	LF	COVE BASE	N/A
0108	DINING	108-06-01	11-13-90	THROUGHOUT	N.D.	Y	1500.	SF	SHEET ROCK AND MASTIC	N/A
0108	DINING	108-06-02	11-13-90	THROUGHOUT	N.D.	Y	1500.	SF	SHEET ROCK AND MASTIC	N/A
0108	DINING	108-06-03	11-13-90	THROUGHOUT	N.D.	Y	1500.	SF	SHEET ROCK AND MASTIC	N/A
0109	ADMIN & SUPPLY	109-01-01	02-27-90	OFFICE	N.D.	N	2000.	SF	12 X 12 FLOOR TILE	N/A
0109	ADMIN & SUPPLY	109-01-02	02-27-90	OFFICE	N.D.	N	2000.	SF	12 X 12 FLOOR TILE	N/A
0109	ADMIN & SUPPLY	109-01-03	02-27-90	OFFICE	TRACE CH	N	2000.	SF	12 X 12 FLOOR TILE	N/A
0109	ADMIN & SUPPLY	109-02-01	02-27-90	OFFICE	N.D.	Y	2100.	SF	12 X 12 CEILING TILE	N/A

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0109	ADMIN & SUPPLY	109-02-02	02-27-90	OFFICE	N.D.	Y	2100.	SF	12 X 12 CEILING TILE	N/A
0109	ADMIN & SUPPLY	109-02-03	02-27-90	OFFICE	N.D.	Y	2100.	SF	12 X 12 CEILING TILE	N/A
0109	ADMIN & SUPPLY	109-03-01	11-13-90	OFFICE	N.D.	N	2000.	LF	COVE BASE AND MASTIC	N/A
0109	ADMIN & SUPPLY	109-03-02	11-13-90	OFFICE	N.D.	N	2000.	LF	COVE BASE AND MASTIC	N/A
0109	ADMIN & SUPPLY	109-03-03	11-13-90	OFFICE	N.D.	N	2000.	LF	COVE BASE AND MASTIC	N/A
0109	ADMIN & SUPPLY	109-04-01	11-13-90	THROUGHOUT	N.D.	N	10000.	SF	SHEET ROCK AND MUD	N/A
0109	ADMIN & SUPPLY	109-04-02	11-13-90	THROUGHOUT	N.D.	N	10000.	SF	SHEET ROCK AND MUD	N/A
0109	ADMIN & SUPPLY	109-04-03	11-13-90	THROUGHOUT	N.D.	N	10000.	SF	SHEET ROCK AND MUD	N/A
0110	BARRACKS	110-01-01	02-27-90	BOILER ROOM	40% CH	Y	100.	SF	AIRCELL TANK INSULATION	REMOVE
0110	BARRACKS	110-01-02	02-27-90	BOILER ROOM	35% CH 15% AM	Y	100.	SF	AIRCELL TANK INSULATION	REMOVE
0110	BARRACKS	110-01-03	02-27-90	BOILER ROOM	35% CH 20% AM	Y	100.	SF	AIRCELL TANK INSULATION	REMOVE
0110	BARRACKS	110-02-01	02-27-90	BOILER ROOM	N.D.	Y	2.	EA	VIBRATION DAMPER	N/A
0110	BARRACKS	110-03-01	07-26-90	EXTERIOR	ASSUMED POSITIVE	N	5000.	SF	TRANSITE SIDING	O&M
0111	ENLISTED BARRAC	111-01-01	02-26-90	OFFICE	N.D.	N	5310.	SF	ROLL LINOLEUM	N/A
0111	ENLISTED BARRAC	111-01-02	02-26-90	OFFICE	N.D.	N	5310.	SF	ROLL LINOLEUM	N/A
0111	ENLISTED BARRAC	111-01-03	02-26-90	OFFICE	N.D.	N	5310.	SF	ROLL LINOLEUM	N/A
0111	ENLISTED BARRAC	111-02-01	02-26-90	MECH ROOM	45% CH	Y	100.	SF	TANK INSULATION	REMOVE
0111	ENLISTED BARRAC	111-02-02	02-26-90	MECH ROOM	45% CH	Y	100.	SF	TANK INSULATION	REMOVE
0111	ENLISTED BARRAC	111-02-03	02-26-90	MECH ROOM	35% CH	Y	100.	SF	TANK INSULATION	REMOVE
0111	ENLISTED BARRAC	111-03-01	02-26-90	MECH ROOM	N.D.	N		EA	VIBRATION DAMPER	N/A
0111	ENLISTED BARRAC	111-03-02	02-26-90	MECH ROOM	N.D.	N		EA	VIBRATION DAMPER	N/A
0111	ENLISTED BARRAC	111-03-03	02-26-90	MECH ROOM	N.D.	N		EA	VIBRATION DAMPER	N/A
0111	ENLISTED BARRAC	111-04-01	02-26-90	BLDG. EXTERIOR	40% CH	N	5000.	SF	TRANSITE SIDING	O&M
0111	ENLISTED BARRAC	111-04-02	02-26-90	BLDG. EXTERIOR	40% CH	N	5000.	SF	TRANSITE SIDING	O&M
0111	ENLISTED BARRAC	111-04-03	02-26-90	BLDG. EXTERIOR	40% CH	N	5000.	SF	TRANSITE SIDING	O&M
0111	ENLISTED BARRAC	111-05-01	11-13-90	THROUGHOUT	N.D.	N	16000.	SF	SHEET ROCK	N/A
0111	ENLISTED BARRAC	111-05-02	11-13-90	THROUGHOUT	N.D.	N	16000.	SF	SHEET ROCK	N/A
0111	ENLISTED BARRAC	111-05-03	11-13-90	THROUGHOUT	N.D.	N	16000.	SF	SHEET ROCK	N/A
0111	ENLISTED BARRAC	111-06-01	11-13-90	THROUGHOUT	N.D.	N	4000.	LF	COVE BASE AND MASTIC	N/A
0111	ENLISTED BARRAC	111-06-02	11-13-90	THROUGHOUT	N.D.	N	4000.	LF	COVE BASE AND MASTIC	N/A
0111	ENLISTED BARRAC	111-06-03	11-13-90	THROUGHOUT	N.D.	N	4000.	LF	COVE BASE AND MASTIC	N/A
0111	ENLISTED BARRAC	111-07-01	11-13-90	ATTIC	N.D.	Y	4000.	SF	ATTIC INSULATION	N/A
0111	ENLISTED BARRAC	111-07-02	11-13-90	ATTIC	N.D.	Y	4000.	SF	ATTIC INSULATION	N/A
0111	ENLISTED BARRAC	111-07-03	11-13-90	ATTIC	N.D.	Y	4000.	SF	ATTIC INSULATION	N/A
0112	OFFICER QTRS TR	112-01-01	11-13-90	HALL	N.D.	Y	7800.	SF	BATT INSULATION	N/A
0112	OFFICER QTRS TR	112-01-02	11-13-90	HALL	N.D.	Y	7800.	SF	BATT INSULATION	N/A

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0112	OFFICER QTRS TR	112-01-03	11-13-90	HALL	N.D.	Y	7800.	SF	BATT INSULATION	N/A
0112	OFFICER QTRS TR	112-02-01	11-13-90	THROUGHOUT	N.D.	Y	15000.	SF	SHEET ROCK AND MUD	N/A
0112	OFFICER QTRS TR	112-02-02	11-13-90	THROUGHOUT	N.D.	Y	15000.	SF	SHEET ROCK AND MUD	N/A
0112	OFFICER QTRS TR	112-02-03	11-13-90	THROUGHOUT	N.D.	Y	15000.	SF	SHEET ROCK AND MUD	N/A
0112	OFFICER QTRS TR	112-03-01	11-13-90	OFFICES	N.D.	Y	7800.	SF	1 X 1 CEILING TILE	N/A
0112	OFFICER QTRS TR	112-03-02	11-13-90	OFFICES	N.D.	Y	7800.	SF	1 X 1 CEILING TILE	N/A
0112	OFFICER QTRS TR	112-03-03	11-13-90	OFFICES	N.D.	Y	7800.	SF	1 X 1 CEILING TILE	N/A
0112	OFFICER QTRS TR	112-04-01	11-13-90	OFFICES	N.D.	N	7800.	SF	12 X 12 WHITE FLOOR TILE	N/A
0112	OFFICER QTRS TR	112-04-02	11-13-90	OFFICES	N.D.	N	7800.	SF	12 X 12 WHITE FLOOR TILE	N/A
0112	OFFICER QTRS TR	112-04-03	11-13-90	OFFICES	N.D.	N	7800.	SF	12 X 12 WHITE FLOOR TILE	N/A
0112	OFFICER QTRS TR	112-05-01	11-13-90	THROUGHOUT	N.D.	N	1000.	LF	COVE BASE AND MASTIC	N/A
0112	OFFICER QTRS TR	112-05-02	11-13-90	THROUGHOUT	N.D.	N	1000.	LF	COVE BASE AND MASTIC	N/A
0112	OFFICER QTRS TR	112-05-03	11-13-90	THROUGHOUT	N.D.	N	1000.	LF	COVE BASE AND MASTIC	N/A
0113	ADMIN GEN PURPO	113-01-01	02-27-90	BOILER ROOM	40% CH	Y	100.	SF	BOILER TANK INSULATION	REMOVE
0113	ADMIN GEN PURPO	113-01-02	02-27-90	BOILER ROOM	15% CH 20% AM	Y	100.	SF	BOILER TANK INSULATION	REMOVE
0113	ADMIN GEN PURPO	113-01-03	02-27-90	BOILER ROOM	45% CH	Y	100.	SF	BOILER TANK INSULATION	REMOVE
0113	ADMIN GEN PURPO	113-02-01	02-27-90	CORRIDOR	N.D.	Y	750.	SF	BATT INSULATION	N/A
0113	ADMIN GEN PURPO	113-02-02	02-27-90	CORRIDOR	N.D.	Y	750.	SF	BATT INSULATION	N/A
0113	ADMIN GEN PURPO	113-02-03	02-27-90	CORRIDOR	N.D.	Y	750.	SF	BATT INSULATION	N/A
0113	ADMIN GEN PURPO	113-03-01	02-27-90	1ST FLOOR CORRIDOR	N.D.	Y	1000.	SF	GYP BOARD	N/A
0113	ADMIN GEN PURPO	113-03-02	02-27-90	1ST FLOOR CORRIDOR	N.D.	Y	1000.	SF	GYP BOARD	N/A
0113	ADMIN GEN PURPO	113-03-03	02-27-90	1ST FLOOR CORRIDOR	N.D.	Y	1000.	SF	GYP BOARD	N/A
0114	ENLISTED BKS	114-01-01	02-26-90	FIRST FLOOR	N.D.	N	6960.	SF	12 X 12 WHITE FLOOR TILE	N/A
0114	ENLISTED BKS	114-01-02	02-26-90	FIRST FLOOR	N.D.	N	6960.	SF	12 X 12 WHITE FLOOR TILE	N/A
0114	ENLISTED BKS	114-01-03	02-26-90	FIRST FLOOR	N.D.	N	6960.	SF	12 X 12 WHITE FLOOR TILE	N/A
0114	ENLISTED BKS	114-02-01	11-13-90	THROUGHOUT	N.D.	N	600.	LF	COVE BASE AND MASTIC	N/A
0114	ENLISTED BKS	114-02-02	11-13-90	THROUGHOUT	N.D.	N	600.	LF	COVE BASE AND MASTIC	N/A
0114	ENLISTED BKS	114-02-03	11-13-90	THROUGHOUT	N.D.	N	600.	LF	COVE BASE AND MASTIC	N/A
0114	ENLISTED BKS	114-03-01	11-13-90	THROUGHOUT	N.D.	Y	6000.	SF	SHEET ROCK AND MUD	N/A
0114	ENLISTED BKS	114-03-02	11-13-90	THROUGHOUT	N.D.	Y	6000.	SF	SHEET ROCK AND MUD	N/A
0114	ENLISTED BKS	114-03-03	11-13-90	THROUGHOUT	N.D.	Y	6000.	SF	SHEET ROCK AND MUD	N/A
0115		115-01-01	02-27-90	ATTIC	NONE DETECTED	Y	2700.	SF	BLOWN INSULATION	N/A
0115		115-01-02	02-27-90	ATTIC	NONE DETECTED	Y	2700.	SF	BLOWN INSULATION	N/A
0115		115-01-03	02-27-90	ATTIC	NONE DETECTED	Y	2700.	SF	BLOWN INSULATION	N/A
0115		115-02-01	02-27-90	MECH ROOM	20% CHRYS. 30% AMOS.	Y	30.	SF	CEMENTIOUS TANK INSULATIO	REMOVE
0115		115-02-02	02-27-90	MECH ROOM	15% CHRYS. 20% AMOS.	Y	30.	SF	CEMENTIOUS TANK INSULATIO	REMOVE

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0115		115-02-03	02-27-90	MECH ROOM	45% CHRYS.	Y	30.	SF	CEMENTIOUS TANK INSULATIO	REMOVE
0115		115-03-01	02-27-90	MECH ROOM	10% CHRYS. 15% AMOS.	Y	70.	SF	AIR CELL INSULATION	REMOVE
0115		115-03-02	02-27-90	MECH ROOM	50% CHRYS.	Y	70.	SF	AIR CELL INSULATION	REMOVE
0115		115-03-03	02-27-90	MECH ROOM	50% CHRYS.	Y	70.	SF	AIR CELL INSULATION	REMOVE
0115		115-04-01	02-27-90	EXTERIOR	ASSUMED POSITIVE	N	5400.	SF	TRANSITE SIDING*POSSIBLE	O&M
0115		115-05-01	11-13-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE & MASTIC	N/A
0115		115-05-02	11-13-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE & MASTIC	N/A
0115		115-05-03	11-13-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE & MASTIC	N/A
0115		115-06-01	11-13-90	ALL	NONE DETECTED	Y	8000.	LF	SHEETROCK & MUD	N/A
0115		115-06-02	11-13-90	ALL	NONE DETECTED	Y	8000.	LF	SHEETROCK & MUD	N/A
0115		115-06-03	11-13-90	ALL	NONE DETECTED	Y	8000.	LF	SHEETROCK & MUD	N/A
0115		115-07-01	11-13-90	HALL	NONE DETECTED	Y	1000.	SF	2x4 CEILING TILE	N/A
0115		115-07-02	11-13-90	HALL	NONE DETECTED	Y	1000.	SF	2x4 CEILING TILE	N/A
0115		115-07-03	11-13-90	HALL	NONE DETECTED	Y	1000.	SF	2x4 CEILING TILE	N/A
0115		115-08-01	11-13-90	2nd FLOOR MENS ROOM	NONE DETECTED	Y	100.	SF	TEXTURED PAINT	N/A
0115		115-08-02	11-13-90	2nd FLOOR MENS ROOM	NONE DETECTED	Y	100.	SF	TEXTURED PAINT	N/A
0115		115-08-03	11-13-90	2nd FLOOR MENS ROOM	NONE DETECTED	Y	100.	SF	TEXTURED PAINT	N/A
0116	BARRACKS	116-01-01	02-26-90	1ST FLOOR	NONE DETECTED	N	6500.	SF	FLOOR TILE	N/A
0116	BARRACKS	116-01-02	02-26-90	1ST FLOOR	NONE DETECTED	N	6500.	SF	FLOOR TILE	N/A
0116	BARRACKS	116-01-03	02-26-90	1ST FLOOR	NONE DETECTED	N	6500.	SF	FLOOR TILE	N/A
0116	BARRACKS	116-02-01	11-13-90	ALL	NONE DETECTED	N	600.	LF	COVEBASE & MASTIC	N/A
0116	BARRACKS	116-02-02	11-13-90	ALL	NONE DETECTED	N	600.	LF	COVEBASE & MASTIC	N/A
0116	BARRACKS	116-02-03	11-13-90	ALL	NONE DETECTED	N	600.	LF	COVEBASE & MASTIC	N/A
0116	BARRACKS	116-03-01	11-13-90	ALL	NONE DETECTED	Y	6000.	LF	SHEETROCK & MUD	N/A
0116	BARRACKS	116-03-02	11-13-90	ALL	NONE DETECTED	Y	6000.	LF	SHEETROCK & MUD	N/A
0116	BARRACKS	116-03-03	11-13-90	ALL	NONE DETECTED	Y	6000.	LF	SHEETROCK & MUD	N/A
0117		117-01-01	02-27-90	MECH ROOM	50% CHRYS.	N	70.	SF	AIR CELL INSULATION	REMOVE
0117		117-01-02	02-27-90	MECH ROOM	50% CHRYS.	N	70.	SF	AIR CELL INSULATION	REMOVE
0117		117-01-03	02-27-90	MECH ROOM	65% CHRYS.	N	70.	SF	AIR CELL INSULATION	REMOVE
0117		117-02-01	02-27-90	MECH ROOM	25% CHRYS. 25% AMOS.	Y	30.	SF	CEMENTIOUS TANK INSULATIO	REMOVE
0117		117-02-02	02-27-90	MECH ROOM	25% CHRYS. 25% AMOS.	Y	30.	SF	CEMENTIOUS TANK INSULATIO	REMOVE
0117		117-02-03	02-27-90	MECH ROOM	25% CHRYS. 25% AMOS.	Y	30.	SF	CEMENTIOUS TANK INSULATIO	REMOVE
0117		117-03-01	11-13-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE	N/A
0117		117-03-02	11-13-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE	N/A
0117		117-03-03	11-13-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE	N/A
0117		117-04-01	11-13-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK AND MUD	N/A

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BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
0117		117-04-02	11-13-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK AND MUD	N/A
0117		117-04-03	11-13-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK AND MUD	N/A
0117		117-05-01	07-26-90	EXTERIOR	ASSUMED POSITIVE	N	7000.	SF	TRANSITE SIDING*POSSIBLE	O&M
0118		S118-01-01	02-26-90	MECH ROOM	NONE DETECTED	Y	15.	SF	TANK INSULATION	N/A
0118		S118-01-02	02-26-90	MECH ROOM	NONE DETECTED	Y	15.	SF	TANK INSULATION	N/A
0118		S118-01-03	02-26-90	MECH ROOM	NONE DETECTED	Y	15.	SF	TANK INSULATION	N/A
0118		S118-02-01	02-26-90	ATTIC STAIRWELL	NONE DETECTED	Y	3120.	SF	INSULATED BOARD	N/A
0118		S118-02-02	02-26-90	ATTIC STAIRWELL	NONE DETECTED	Y	3120.	SF	INSULATED BOARD	N/A
0118		S118-02-03	02-26-90	ATTIC STAIRWELL	NONE DETECTED	Y	3120.	SF	INSULATED BOARD	N/A
0118	BARRACKS	S118-03-01	11-13-90	EXTERIOR	20% CHRYS.	Y	5400.	SF	TRANSITE SIDING	O&M
0118	BARRACKS	S118-03-02	11-13-90	EXTERIOR	20% CHRYS.	Y	5400.	SF	TRANSITE SIDING	O&M
0118	BARRACKS	S118-03-03	11-13-90	EXTERIOR	20% CHRYS.	Y	5400.	SF	TRANSITE SIDING	O&M
0118	BARRACKS	S118-04-01	11-13-90	MECH ROOM	NONE DETECTED	N	10.	SF	VIBRATION DAMPER	N/A
0118	BARRACKS	S118-04-02	11-13-90	MECH ROOM	NONE DETECTED	N	10.	SF	VIBRATION DAMPER	N/A
0118	BARRACKS	S118-04-03	11-13-90	MECH ROOM	NONE DETECTED	N	10.	SF	VIBRATION DAMPER	N/A
0118	BARRACKS	S118-05-01	11-13-90	ALL	NONE DETECTED	N	4000.	SF	LINOLEUM & MASTIC	N/A
0118	BARRACKS	S118-05-02	11-13-90	ALL	NONE DETECTED	N	4000.	SF	LINOLEUM & MASTIC	N/A
0118	BARRACKS	S118-05-03	11-13-90	ALL	NONE DETECTED	N	4000.	SF	LINOLEUM & MASTIC	N/A
0118	BARRACKS	S118-06-01	11-13-90	ALL	NONE DETECTED	N	4000.	LF	COVEBASE & MASTIC	N/A
0118	BARRACKS	S118-06-02	11-13-90	ALL	NONE DETECTED	N	4000.	LF	COVEBASE & MASTIC	N/A
0118	BARRACKS	S118-06-03	11-13-90	ALL	NONE DETECTED	N	4000.	LF	COVEBASE & MASTIC	N/A
0118	BARRACKS	S118-07-01	11-13-90	ALL	NONE DETECTED	N	16000.	SF	SHEETROCK & MUD	N/A
0118	BARRACKS	S118-07-02	11-13-90	ALL	NONE DETECTED	N	16000.	SF	SHEETROCK & MUD	N/A
0118	BARRACKS	S118-07-03	11-13-90	ALL	NONE DETECTED	N	16000.	SF	SHEETROCK & MUD	N/A
0119	BARRACKS	119-01-01	02-27-90	1ST FLOOR	NONE DETECTED	Y	1000.	SF	2x4 CEILING TILE	N/A
0119	BARRACKS	119-01-02	02-27-90	1ST FLOOR	NONE DETECTED	Y	1000.	SF	2x4 CEILING TILE	N/A
0119	BARRACKS	119-01-03	02-27-90	1ST FLOOR	NONE DETECTED	Y	1000.	SF	2x4 CEILING TILE	N/A
0119	BARRACKS	119-02-01	02-27-90	MECH ROOM	45% CHRYS.	Y	100.	SF	TANK INSULATION	REMOVAL
0119	BARRACKS	119-02-02	02-27-90	MECH ROOM	45% CHRYS.	Y	100.	SF	TANK INSULATION	REMOVAL
0119	BARRACKS	119-02-03	02-27-90	MECH ROOM	45% CHRYS.	Y	100.	SF	TANK INSULATION	REMOVAL
0119	BARRACKS	S119-03-01	11-13-90	EXTERIOR	10% CHRYS.	N	5400.	SF	TRANSITE SIDING	O&M
0119	BARRACKS	S119-03-02	11-13-90	EXTERIOR	5% CHRYS.	N	5400.	SF	TRANSITE SIDING	O&M
0119	BARRACKS	S119-03-03	11-13-90	EXTERIOR	5% CHRYS.	N	5400.	SF	TRANSITE SIDING	O&M
0119	BARRACKS	S119-04-01	11-13-90	MECH ROOM	NONE DETECTED	N	10.	SF	VIBRATION DAMPER	N/A
0119	BARRACKS	S119-04-02	11-13-90	MECH ROOM	NONE DETECTED	N	10.	SF	VIBRATION DAMPER	N/A
0119	BARRACKS	S119-04-03	11-13-90	MECH ROOM	NONE DETECTED	N	10.	SF	VIBRATION DAMPER	N/A

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0119	BARRACKS	S119-05-01	11-13-90	MECH ROOM	NONE DETECTED	Y	4000.	SF	ROCK WOOL INSULATION	N/A
0119	BARRACKS	S119-05-02	11-13-90	MECH ROOM	NONE DETECTED	Y	4000.	SF	ROCK WOOL INSULATION	N/A
0119	BARRACKS	S119-05-03	11-13-90	MECH ROOM	NONE DETECTED	Y	4000.	SF	ROCK WOOL INSULATION	N/A
0119	BARRACKS	S119-06-01	11-13-90	ALL	NONE DETECTED	N	4000.	SF	LINOLEUM & MASTIC	N/A
0119	BARRACKS	S119-06-02	11-13-90	ALL	NONE DETECTED	N	4000.	SF	LINOLEUM & MASTIC	N/A
0119	BARRACKS	S119-06-03	11-13-90	ALL	NONE DETECTED	N	4000.	SF	LINOLEUM & MASTIC	N/A
0119	BARRACKS	S119-07-01	11-13-90	ALL	NONE DETECTED	N	10000.	LF	COVEBASE & MASTIC	N/A
0119	BARRACKS	S119-07-02	11-13-90	ALL	NONE DETECTED	N	10000.	LF	COVEBASE & MASTIC	N/A
0119	BARRACKS	S119-07-03	11-13-90	ALL	NONE DETECTED	N	10000.	LF	COVEBASE & MASTIC	N/A
0119	BARRACKS	S119-08-01	11-13-90	ALL	NONE DETECTED	N	16000.	SF	SHEETROCK & MUD	N/A
0119	BARRACKS	S119-08-02	11-13-90	ALL	NONE DETECTED	N	16000.	SF	SHEETROCK & MUD	N/A
0119	BARRACKS	S119-08-03	11-13-90	ALL	NONE DETECTED	N	16000.	SF	SHEETROCK & MUD	N/A
0120	BARRACKS	120-01-01	02-26-90	MECH ROOM	NONE DETECTED	Y	20.	SF	TANK INSULATION	N/A
0120	BARRACKS	120-01-02	02-26-90	MECH ROOM	NONE DETECTED	Y	20.	SF	TANK INSULATION	N/A
0120	BARRACKS	120-01-03	02-26-90	MECH ROOM	NONE DETECTED	Y	20.	SF	TANK INSULATION	N/A
0120	BARRACKS	120-02-01	02-26-90	MECH ROOM	NONE DETECTED	Y	10000.	SF	SHEETROCK	
0120	BARRACKS	120-02-02	02-26-90	MECH ROOM	NONE DETECTED	Y	10000.	SF	SHEETROCK	N/A
0120	BARRACKS	120-02-03	02-26-90	MECH ROOM	NONE DETECTED	Y	10000.	SF	SHEETROCK	N/A
0120	BARRACKS	120-03-01	11-13-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE & MASTIC	N/A
0120	BARRACKS	120-03-02	11-13-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE & MASTIC	N/A
0120	BARRACKS	120-03-03	11-13-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE & MASTIC	N/A
0120	BARRACKS	120-04-01	11-13-90	ALL EXCEPT RESTROOM	NONE DETECTED	N	6000.	SF	TAN LINOLEUM	N/A
0120	BARRACKS	120-04-02	11-13-90	ALL EXCEPT RESTROOM	NONE DETECTED	N	6000.	SF	TAN LINOLEUM	N/A
0120	BARRACKS	120-04-03	11-13-90	ALL EXCEPT RESTROOM	NONE DETECTED	N	6000.	SF	TAN LINOLEUM	N/A
0120	BARRACKS	120-05-01	02-26-90	EXTERIOR	ASSUMED POSITIVE	N	4000.	SF	CAB SIDING	O&M
0120	BARRACKS	S120-02-01	02-26-90	MECH ROOM	NONE DETECTED	Y	10000.	SF	SHEETROCK	N/A
0121	BARRACKS	121-01-01	11-13-90	ALL	NONE DETECTED	N	6000.	SF	GREY LINOLEUM	N/A
0121	BARRACKS	121-01-02	11-13-90	ALL	NONE DETECTED	N	6000.	SF	GREY LINOLEUM	N/A
0121	BARRACKS	121-01-03	11-13-90	ALL	NONE DETECTED	N	6000.	SF	GREY LINOLEUM	N/A
0121	BARRACKS	121-02-01	11-13-90	ALL	NONE DETECTED	N	600.	LF	COVEBASE	N/A
0121	BARRACKS	121-02-02	11-13-90	ALL	NONE DETECTED	N	600.	LF	COVEBASE	N/A
0121	BARRACKS	121-02-03	11-13-90	ALL	NONE DETECTED	N	600.	LF	COVEBASE	N/A
0121	BARRACKS	121-03-01	11-13-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK	N/A
0121	BARRACKS	121-03-02	11-13-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK	N/A
0121	BARRACKS	121-03-03	11-13-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK	N/A
0121	BARRACKS	121-04-01	07-26-90	EXTERIOR	ASSUMED POSITIVE	N	4000.	SF	CAB SIDING	O&M

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0122	BARRACKS	122-01-01	02-27-90	MECH ROOM	NONE DETECTED	Y	25.	SF	TANK INSULATION	O&M
0122	BARRACKS	122-01-02	02-27-90	MECH ROOM	NONE DETECTED	Y	25.	SF	TANK INSULATION	O&M
0122	BARRACKS	122-01-03	02-27-90	MECH ROOM	NONE DETECTED	Y	25.	SF	TANK INSULATION	O&M
0122	BARRACKS	122-03-01	07-26-90	ALL	NONE DETECTED	N	6000.	SF	GREY LINOLEUM	O&M
0122	BARRACKS	122-03-02	07-26-90	ALL	NONE DETECTED	N	6000.	SF	GREY LINOLEUM	O&M
0122	BARRACKS	122-03-03	07-26-90	ALL	NONE DETECTED	N	6000.	SF	GREY LINOLEUM	O&M
0122	BARRACKS	122-04-01	07-26-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE	O&M
0122	BARRACKS	122-04-02	07-26-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE	O&M
0122	BARRACKS	122-04-03	07-26-90	ALL	NONE DETECTED	N	800.	LF	COVEBASE	O&M
0122	BARRACKS	122-05-01	07-26-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK & MUD	O&M
0122	BARRACKS	122-05-02	07-26-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK & MUD	O&M
0122	BARRACKS	122-05-03	07-26-90	ALL	TRACE CHRYS.	Y	8000.	SF	SHEETROCK & MUD	O&M
0122	BARRACKS	NONE TAKEN	07-26-90	EXTERIOR	ASSUMED POSITIVE	N	4000.	SF	TRANSITE SIDING	O&M
0123	BARRACKS	123-01-01	07-26-90	EXTERIOR	20% CHRYS.	N	4000.	SF	CAB DEBRIS/SIDING	O&M
0123	BARRACKS	123-01-02	07-26-90	EXTERIOR	20% CHRYS.	N	4000.	SF	CAB DEBRIS/SIDING	O&M
0123	BARRACKS	123-01-03	07-26-90	EXTERIOR	20% CHRYS.	N	4000.	SF	CAB DEBRIS/SIDING	O&M
0123	BARRACKS	123-02-01	11-13-90	ALL	1% CHRYS.	N	6000.	SF	WHITE 12x12 FLOOR TILE	O&M
0123	BARRACKS	123-02-02	11-13-90	ALL	1% CHRYS.	N	6000.	SF	WHITE 12x12 FLOOR TILE	O&M
0123	BARRACKS	123-02-03	11-13-90	ALL	NONE DETECTED	N	6000.	SF	WHITE 12x12 FLOOR TILE	O&M
0123	BARRACKS	123-03-01	11-13-90	ALL	NONE DETECTED	N	600.	LF	COVEBASE	N/A
0123	BARRACKS	123-03-02	11-13-90	ALL	NONE DETECTED	N	600.	LF	COVEBASE	N/A
0123	BARRACKS	123-03-03	11-13-90	ALL	NONE DETECTED	N	600.	LF	COVEBASE	N/A
0123	BARRACKS	123-04-01	11-13-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK & MUD	N/A
0123	BARRACKS	123-04-02	11-13-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK & MUD	N/A
0123	BARRACKS	123-04-03	11-13-90	ALL	NONE DETECTED	Y	8000.	SF	SHEETROCK & MUD	N/A
0123	BARRACKS	123-05-01	11-13-90		NONE DETECTED	N	30.	LF	DOOR PUTTY	N/A
0123	BARRACKS	123-05-02	11-13-90		NONE DETECTED	N	30.	LF	DOOR PUTTY	N/A
0123	BARRACKS	123-05-03	11-13-90		NONE DETECTED	N	30.	LF	DOOR PUTTY	N/A
0124	BARRACKS	124-01-01	11-13-90	ALL	NONE DETECTED	N	6000.	SF	GREY LINOLEUM	N/A
0124	BARRACKS	124-01-02	11-13-90	ALL	NONE DETECTED	N	6000.	SF	GREY LINOLEUM	N/A
0124	BARRACKS	124-01-03	11-13-90	ALL	NONE DETECTED	N	6000.	SF	GREY LINOLEUM	N/A
0124	BARRACKS	124-02-01	11-13-90	THROUGHOUT	NONE DETECTED	N	600.	SF	COVEBASE	N/A
0124	BARRACKS	124-02-02	11-13-90	THROUGHOUT	NONE DETECTED	N	600.	SF	COVEBASE	N/A
0124	BARRACKS	124-02-03	11-13-90	THROUGHOUT	NONE DETECTED	N	600.	SF	COVEBASE	N/A
0124	BARRACKS	124-03-01	11-13-90	THROUGHOUT	NONE DETECTED	N	8000.	SF	SHEETROCK & MUD	N/A
0124	BARRACKS	124-03-02	11-13-90	THROUGHOUT	NONE DETECTED	N	8000.	SF	SHEETROCK & MUD	N/A

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0124	BARRACKS	124-03-03	11-13-90	THROUGHOUT	NONE DETECTED	N	8000.	SF	SHEETROCK & MUD	N/A
0124	BARRACKS	124-04-01	11-13-90	SIDE DOOR	NONE DETECTED	Y	6.	LF	WINDOW PUTTY	N/A
0124	BARRACKS	124-04-02	11-13-90	SIDE DOOR	NONE DETECTED	Y	6.	LF	WINDOW PUTTY	N/A
0124	BARRACKS	124-04-03	11-13-90	SIDE DOOR	NONE DETECTED	Y	6.	LF	WINDOW PUTTY	N/A
0124	BARRACKS	124-05-01	07-26-91	EXTERIOR	ASSUMED POSITIVE	N	4000.	SF	UNDER ALLUMINUM SIDING	O&M
0125	BARRACKS	125-01-01	02-27-90	INTERIOR	2% CHRYSOTILE	N	5000.	SF	12X12 FLOOR TILE	O&M
0125	BARRACKS	125-01-02	02-27-90	INTERIOR	2% CHRYSOTILE	N	5000.	SF	12X12 FLOOR TILE	O&M
0125	BARRACKS	125-01-03	02-27-90	INTERIOR	2% CHRYSOTIVE	N	5000.	SF	12X12 FLOOR TILE	O&M
0125	BARRACKS	125-02-01	11-27-90	THROUGHOUT	NONE DETECTED	N	600.	SF	COVEBASE	N/A
0125	BARRACKS	125-02-02	11-27-90	THROUGHOUT	NONE DETECTED	N	600.	SF	COVEBASE	N/A
0125	BARRACKS	125-02-03	11-27-90	THROUGHOUT	NONE DETECTED	N	600.	SF	COVEBASE	N/A
0125	BARRACKS	125-03-01	11-27-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	SHEETROCK	N/A
0125	BARRACKS	125-03-02	11-27-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	SHEETROCK	N/A
0125	BARRACKS	125-03-03	11-27-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	SHEETROCK	N/A
0125	BARRACKS	125-05-01	07-26-90	EXTERIOR	ASSUMED POSITIVE	Y	4000.	SF	TRANSITE SIDING	O&M
0126	BARRACKS	126-01-01	02-27-90	MECH ROOM	NONE DETECTED	Y	25.	EA	TANK INSULATION	N/A
0126	BARRACKS	126-01-02	02-27-90	MECH ROOM	NONE DETECTED	Y	25.	EA	TANK INSULATION	N/A
0126	BARRACKS	126-01-03	02-27-90	MECH ROOM	NONE DETECTED	Y	25.	EA	TANK INSULATION	N/A
0126	BARRACKS	126-02-01	11-13-90	THROUGHOUT	NONE DETECTED	N	6000.	SF	TAN LINOLEUM	N/A
0126	BARRACKS	126-02-02	11-13-90	THROUGHOUT	NONE DETECTED	N	6000.	SF	TAN LINOLEUM	N/A
0126	BARRACKS	126-02-03	11-13-90	THROUGHOUT	NONE DETECTED	N	6000.	SF	TAN LINOLEUM	N/A
0126	BARRACKS	126-03-01	11-13-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	SHEETROCK	N/A
0126	BARRACKS	126-03-02	11-13-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	SHEETROCK	N/A
0126	BARRACKS	126-03-03	11-13-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	SHEETROCK	N/A
0126	BARRACKS	126-04-01	07-26-90	EXTERIOR	ASSUMED POSITIVE	N	7000.	SF	NO SAMPLES TAKEN-ASSUMED	O&M
0139	BARRACKS	139-01-01	02-26-90	INTERIOR	NONE DETECTED	N	2310.	SF	BEIGE 12X12 FLOOR TILE	N/A
0139	BARRACKS	139-01-02	02-26-90	INTERIOR	NONE DETECTED	N	2310.	SF	BEIGE 12X12 FLOOR TILE	N/A
0139	BARRACKS	139-01-03	02-26-90	INTERIOR	NONE DETECTED	N	2310.	SF	BEIGE 12X12 FLOOR TILE	N/A
0139	BARRACKS	139-02-01	02-26-90	INTERIOR	NONE DETECTED	N	3485.	SF	12X12 CEILING TILE	N/A
0139	BARRACKS	139-02-02	02-26-90	INTERIOR	NONE DETECTED	N	3485.	SF	12X12 CEILING TILE	N/A
0139	BARRACKS	139-02-03	02-26-90	INTERIOR	NONE DETECTED	N	3485.	SF	12X12 CEILING TILE	N/A
0139	BARRACKS	139-03-01	11-13-90	UNDER FLOOR TILE	10% CHRYSOTILE	N	2000.	SF	FLOOR TILE MASTIC	O&M
0139	BARRACKS	139-03-02	11-13-90	UNDER FLOOR TILE	10% CHRYSOTILE	N	2000.	SF	FLOOR TILE MASTIC	O&M
0139	BARRACKS	139-03-03	11-13-90	UNDER FLOOR TILE	20% CHRYSOTILE	N	2000.	SF	FLOOR TILE MASTIC	O&M
0139	BARRACKS	139-04-01	11-13-90	THROUGHOUT	NONE DETECTED	N	1000.	SF	COVE BASE W/MASTIC	N/A
0139	BARRACKS	139-04-02	11-13-90	THROUGHOUT	NONE DETECTED	N	1000.	SF	COVE BASE W/MASTIC	N/A

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0139	BARRACKS	139-04-03	11-13-90	THROUGHOUT	NONE DETECTED	N	1000.	SF	COVE BASE W/MASTIC	N/A
0139	BARRACKS	139-05-01	11-13-90	THROUGHOUT	NONE DETECTED	N	10000.	SF	SHEETROCK	N/A
0139	BARRACKS	139-05-02	11-13-90	THROUGHOUT	NONE DETECTED	N	10000.	SF	SHEETROCK	N/A
0139	BARRACKS	139-05-03	11-13-90	THROUGHOUT	NONE DETECTED	N	10000.	SF	SHEETROCK	N/A
0139	BARRACKS	139-06-01	11-13-90	THROUGHOUT DUCT SYS	NONE DETECTED	Y	100.	LF	DUCT INSULATION	N/A
0139	BARRACKS	139-06-02	11-13-90	THROUGHOUT DUCT SYS	NONE DETECTED	Y	100.	LF	DUCT INSULATION	N/A
0139	BARRACKS	139-06-03	11-13-90	THROUGHOUT DUCT SYS	NONE DETECTED	Y	100.	LF	DUCT INSULATION	N/A
0139	BARRACKS	139-07-01	11-13-90	EXTERIOR WINDOWS	NONE DETECTED	N	15.	LF	WINDOW CAULKING	N/A
0139	BARRACKS	139-07-02	11-13-90	EXTERIOR WINDOWS	NONE DETECTED	N	15.	LF	WINDOW CAULKING	N/A
0139	BARRACKS	139-07-03	11-13-90	EXTERIOR WINDOWS	NONE DETECTED	N	15.	LF	WINDOW CAULKING	N/A
0141	BARRACKS	141-01-01	02-27-90	MECH ROOM	45% CHRYSOTILE	Y	100.	EA	TANK INSULATION	REMOVAL
0141	BARRACKS	141-01-02	02-27-90	MECH ROOM	30% CHRYS 15% AMOS	Y	100.	EA	TANK INSULATION	REMOVAL
0141	BARRACKS	141-01-03	02-27-90	MECH ROOM	30% CHRYS 15% AMOS	Y	100.	EA	TANK INSULATION	REMOVAL
0141	BARRACKS	141-02-01	11-13-90	EXTERIOR	30% CHRYSOTILE	N	4000.	SF	TRANSITE SIDING	O&M
0141	BARRACKS	141-02-02	11-13-90	EXTERIOR	30% CHRYSOTILE	N	4000.	SF	TRANSITE SIDING	O&M
0141	BARRACKS	141-02-03	11-13-90	EXTERIOR	30% CHRYSOTILE	N	4000.	SF	TRANSITE SIDING	O&M
0141	BARRACKS	141-03-01	11-13-90		NONE DETECTED	Y	4000.	SF	COTTON-TYPE INSULATION	N/A
0141	BARRACKS	141-03-02	11-13-90		NONE DETECTED	Y	4000.	SF	COTTON-TYPE INSULATION	N/A
0141	BARRACKS	141-03-03	11-13-90		NONE DETECTED	Y	4000.	SF	COTTON-TYPE INSULATION	N/A
0141	BARRACKS	141-04-01	11-13-90	THROUGHOUT	NONE DETECTED	N	16000.	SF	SHEETROCK & MUD	N/A
0141	BARRACKS	141-04-02	11-13-90	THROUGHOUT	NONE DETECTED	N	16000.	SF	SHEETROCK & MUD	N/A
0141	BARRACKS	141-04-03	11-13-90	THROUGHOUT	NONE DETECTED	N	16000.	SF	SHEETROCK & MUD	N/A
0141	BARRACKS	141-05-01	11-13-90	BARBER SHOP	NONE DETECTED	N	150.	SF	FLOOR TILE W/MASTIC	N/A
0141	BARRACKS	141-05-02	11-13-90	BARBER SHOP	NONE DETECTED	N	150.	SF	FLOOR TILE W/MASTIC	N/A
0141	BARRACKS	141-05-03	11-13-90	BARBER SHOP	NONE DETECTED	N	150.	SF	FLOOR TILE W/MASTIC	N/A
0141	BARRACKS	141-06-01	11-13-90	BARBER SHOP	NONE DETECTED	N	40.	SF	COVE BASE W/MASTIC	N/A
0141	BARRACKS	141-06-02	11-13-90	BARBER SHOP	NOT ANALYZED	N	40.	SF	COVE BASE W/MASTIC	N/A
0141	BARRACKS	141-06-03	11-13-90	BARBER SHOP	NONE DETECTED	N	40.	SF	COVE BASE W/MASTIC	N/A
0143	BARRACKS	143-01-01	11-13-90	ON TANK	40% CHRYSOTILE	Y	10.	SF	AIRCELL TANK INSULATION	REMOVAL
0143	BARRACKS	143-01-02	11-13-90	ON TANK	40% CHRYSOTILE	Y	10.	SF	AIRCELL TANK INSULATION	REMOVAL
0143	BARRACKS	143-01-03	11-13-90	ON TANK	35% CHRYSOTILE	Y	10.	SF	AIRCELL TANK INSULATION	REMOVAL
0143	BARRACKS	143-02-01	11-13-90	MECH ROOM	25% CHRYS 20% AMOS	Y	100.	SF	CEMENTITIOUS INSULATION	REMOVAL
0143	BARRACKS	143-02-02	11-13-90	MECH ROOM	25% CHRYS 20% AMOS	Y	100.	SF	CEMENTITIOUS INSULATION	REMOVAL
0143	BARRACKS	143-02-03	11-13-90	MECH ROOM	25% CHRYS 20% AMOS	Y	100.	SF	CEMENTITIOUS INSULATION	REMOVAL
0143	BARRACKS	143-03-01	11-13-90	MECH ROOM	NONE DETECTED	Y	10.	EA	BOILER INSULATON	N/A
0143	BARRACKS	143-03-02	11-13-90	MECH ROOM	NONE DETECTED	Y	10.	EA	BOILER INSULATION	N/A

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0143	BARRACKS	143-03-03	11-13-90	MECH ROOM	NONE DETECTED	Y	10.	EA	BOILER INSULATION	N/A
0143	BARRACKS	143-04-01	11-13-90	EXTERIOR	ASSUMED POSITIVE	N	4000.	SF	NOT SAMPLED	O&M
0145	BARRACKS	145-01-01	03-07-90	MECH ROOM	45% CHRYSOTILE	Y	70.	SF	TANK INSULATION	REMOVAL
0145	BARRACKS	145-01-02	03-07-90	MECH ROOM	45% CHRYSOTILE	Y	70.	SF	TANK INSULATION	REMOVAL
0145	BARRACKS	145-01-03	03-07-90	MECH ROOM	45% CHRYSOTILE	Y	70.	SF	TANK INSULATION	REMOVAL
0145	BARRACKS	145-02-01	03-07-90	MECH ROOM	25% CHRYS 20% AMOS	Y	30.	SF	CEMENTITIOUS INSULATION	REMOVAL
0145	BARRACKS	145-02-02	03-07-90	MECH ROOM	25% CHRYS 20% AMOS	Y	30.	SF	CEMENTITIOUS INSULATION	REMOVAL
0145	BARRACKS	145-02-03	03-07-90	MECH ROOM	25% CHRYS 20% AMOS	Y	30.	SF	CEMENTITIOUS INSULATION	REMOVAL
0145	BARRACKS	145-03-01	07-26-90	EXTERIOR	ASSUMED POSITIVE	N	4000.	SF	TRANSITE SIDING	O&M
0147	BARRACKS	147-01-01	02-27-90	MECH ROOM	25% CHRYS 20% AMOS	Y	100.	SF	TANK INSULATION	REMOVAL
0147	BARRACKS	147-01-02	02-27-90	MECH ROOM	30% CHRYS 15% AMOS	Y	100.	SF	TANK INSULATION	REMOVAL
0147	BARRACKS	147-01-03	02-27-90	MECH ROOM	25% CHRYS 20% AMOS	Y	100.	SF	TANK INSULATION	REMOVAL
0147	BARRACKS	147-02-01	02-27-90	MECH ROOM	50% CHRYS	Y	75.	SF	TANK WRAP	REMOVAL
0147	BARRACKS	147-02-02	02-27-90	MECH ROOM	50% CHRYS	Y	75.	SF	TANK WRAP	REMOVAL
0147	BARRACKS	147-02-03	02-27-90	MECH ROOM	45% CHRYS	Y	75.	SF	TANK WRAP	REMOVAL
0147	BARRACKS	147-03-01	11-27-90	MECH ROOM	NONE DETECTED	Y	10.	SF	COTTEN WALL INSULATION- D	N/A
0147	BARRACKS	147-03-02	11-27-90	MECH ROOM	NONE DETECTED	Y	10.	SF	COTTEN WALL INSULATION- D	N/A
0147	BARRACKS	147-03-03	11-27-90	MECH ROOM	NONE DETECTED	Y	10.	SF	COTTEN WALL INSULATION- D	N/A
0147	BARRACKS	147-04-01	02-27-90	EXTERIOR	35% CHRYSOTILE	N	4000.	SF	TRANSITE SIDING	O&M
0147	BARRACKS	147-04-02	02-27-90	EXTERIOR	35% CHRYSOTILE	N	4000.	SF	TRANSITE SIDING	O&M
0147	BARRACKS	147-04-03	02-27-90	EXTERIOR	35% CHRYSOTILE	N	4000.	SF	TRANSITE SIDING	O&M
0149	BARRACKS	149-01-01	03-01-90	EXTERIOR	35% CHRYSOTILE	N	4000.	SF	TRANSITE SIDING	O&M
0149	BARRACKS	149-01-02	03-01-90	EXTERIOR	35% CHRYSOTILE	N	4000.	SF	TRANSITE SIDING	O&M
0149	BARRACKS	149-01-03	03-01-90	EXTERIOR	30% CHRYSOTILE	N	4000.	SF	TRANSITE SIDING	O&M
0149	BARRACKS	149-02-01	03-01-90	THROUGHOUT	NONE DETECTED	Y	10000.	SF	GYPSUM BOARD	N/A
0149	BARRACKS	149-02-02	03-01-90	THROUGHOUT	NONE DETECTED	Y	10000.	SF	GYPSUM BOARD	N/A
0149	BARRACKS	149-02-03	03-01-90	THROUGHOUT	NONE DETECTED	Y	10000.	SF	GYPSUM BOARD	N/A
0149	BARRACKS	149-03-01	03-01-90	CORRIDORS/ATTICS	NONE DETECTED	Y	400.	SF	ROCK WOOL BATTS	N/A
0149	BARRACKS	149-03-02	03-01-90	CORRIDORS/ATTICS	NONE DETECTED	Y	400.	SF	ROCK WOOL BATTS	N/A
0149	BARRACKS	149-03-03	03-01-90	CORRIDORS/ATTICS	NONE DETECTED	Y	400.	SF	ROCK WOOL BATTS	N/A
0149	BARRACKS	149-04-01	03-01-90	BOILER ROOM	15% CHRYS 20% AMOS	Y	1000.	SF	TANK JACKET	REMOVAL
0149	BARRACKS	149-04-02	03-01-90	BOILER ROOM	15% CHRYS 20% AMOS	Y	1000.	SF	TANK JACKET	REMOVAL
0149	BARRACKS	149-04-03	03-01-90	BOILER ROOM	15% CHRYS 20% AMOS	Y	1000.	SF	TANK JACKET	REMOVAL
0149	BARRACKS	149-05-01	03-01-90	BOILER ROOM	NONE DETECTED	Y	2.	EA	VIBRATION DAMPER	N/A
0149	BARRACKS	149-06-01	03-01-90	UPSTAIRS	NONE DETECTED	Y	3000.	SF	FIBER BOARD	N/A
0149	BARRACKS	149-06-02	03-01-90	UPSTAIRS	NONE DETECTED	Y	3000.	SF	FIBER BOARD	N/A

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0149	BARRACKS	149-06-03	03-01-90	UPSTAIRS	NONE DETECTED	Y	3000.	SF	FIBER BOARD	N/A
0149	BARRACKS	149-07-01	03-01-90	EXTERIOR	40% CHRYSOTILE	N	4000.	SF	CAB SIDING	O&M
0149	BARRACKS	149-07-02	03-01-90	EXTERIOR	40% CHRYSOTILE	N	4000.	SF	CAB SIDING	O&M
0149	BARRACKS	149-07-03	03-01-90	EXTERIOR	40% CHRYSOTILE	N	4000.	SF	CAB SIDING	O&M
0150	BARRACKS	150-01-01	03-07-90	MECH ROOM	40% CHRYS 5% AMOS	Y	70.	SF	AIR CELL ON TANK	REMOVAL
0150	BARRACKS	150-01-02	03-07-90	MECH ROOM	35% CHRYS 5% AMOS	Y	70.	SF	AIR CELL ON TANK	REMOVAL
0150	BARRACKS	150-01-03	03-07-90	MECH ROOM	40% CHRYS	Y	70.	SF	AIR CELL ON TANK	REMOVAL
0150	BARRACKS	150-02-01	03-07-90	MECH ROOM	30% CHRYS 20% AMOS	Y	30.	SF	CEMENTITIOUS TANK INSULAT	REMOVAL
0150	BARRACKS	150-02-02	03-07-90	MECH ROOM	30% CHRYS 15% AMOS	Y	30.	SF	CEMENTITIOUS TANK INSULAT	REMOVAL
0150	BARRACKS	150-02-03	03-07-90	MECH ROOM	30% CHRYS 15% AMOS	Y	30.	SF	CEMENTITIOUS TANK INSULAT	REMOVAL
0150	BARRACKS	150-03-01	03-07-90	MECH ROOM	NONE DETECTED	Y	8000.	SF	DRYWALL W/LEVELING COMPOU	N/A
0150	BARRACKS	150-03-02	03-07-90	MECH ROOM	NONE DETECTED	Y	8000.	SF	DRYWALL W/LEVELING COMPOU	N/A
0150	BARRACKS	150-03-03	03-07-90	MECH ROOM	NONE DETECTED	Y	8000.	SF	DRYWALL W/LEVELING COMPOU	N/A
0150	BARRACKS	150-04-01	03-07-90	1ST FLOOR	NONE DETECTED	N	3000.	SF	GREEN LINOLEUM	N/A
0150	BARRACKS	150-04-02	03-07-90	1ST FLOOR	NONE DETECTED	N	3000.	SF	GREEN LINOLEUM	N/A
0150	BARRACKS	150-04-03	03-07-90	1ST FLOOR	NONE DETECTED	N	3000.	SF	GREEN LINOLEUM	N/A
0150	BARRACKS	150-05-01	03-07-90		NONE DETECTED	Y	2700.	SF	BLOWN-IN INSULATION	N/A
0150	BARRACKS	150-05-02	03-07-90		NONE DETECTED	Y	2700.	SF	BLOWN-IN INSULATION	N/A
0150	BARRACKS	150-05-03	03-07-90		NONE DETECTED	Y	2700.	SF	BLOWN-IN INSULATION	N/A
0150	BARRACKS	150-06-01	03-07-90	RESTROOMS	NONE DETECTED	N	400.	SF	TEXTURED PAINT	N/A
0150	BARRACKS	150-06-02	03-07-90	RESTROOMS	NONE DETECTED	N	400.	SF	TEXTURED PAINT	N/A
0150	BARRACKS	150-06-03	03-07-90	RESTROOMS	NONE DETECTED	N	400.	SF	TEXTURED PAINT	N/A
0150	BARRACKS	150-07-01	03-07-90	EXTERIOR	ASSUMED POSITIVE	N	4000.	SF	TRANSITE SIDING	O&M
0150	BARRACKS	150-08-01	11-13-90	THROUGHOUT	NONE DETECTED	N	800.	LF	COVE BASE W/MASTIC	N/A
0150	BARRACKS	150-08-02	11-13-90	THROUGHOUT	NONE DETECTED	N	800.	LF	COVE BASE W/MASTIC	N/A
0150	BARRACKS	150-08-03	11-13-90	THROUGHOUT	NONE DETECTED	N	800.	LF	COVE BASE W/MASTIC	N/A
0151	BARRACKS	151-01-01	03-07-90	MECH ROOM	45% CHRYSOTILE	Y	70.	SF	AIR CELL TANK INSULATION	REMOVAL
0151	BARRACKS	151-01-02	03-07-90	MECH ROOM	45% CHRYSOTILE	Y	70.	SF	AIR CELL TANK INSULATION	REMOVAL
0151	BARRACKS	151-01-03	03-07-90	MECH ROOM	45% CHRYSOTILE	Y	70.	SF	AIR CELL TANK INSULATION	REMOVAL
0151	BARRACKS	151-02-01	03-07-90	MECH ROOM	20% CHRYS 20% AMOS	Y	30.	SF	CEMENTIOUS TANK INSULATIO	REMOVAL
0151	BARRACKS	151-02-02	03-07-90	MECH ROOM	25% CHRYS 20% AMOS	Y	30.	SF	CEMENTIOUS TANK INSULATIO	REMOVAL
0151	BARRACKS	151-02-03	03-07-90	MECH ROOM	25% CHRYS 20% AMOS	Y	30.	SF	CEMENTIOUS TANK INSULATIO	REMOVAL
0151	BARRACKS	151-03-01	03-07-90	MECH ROOM	NONE DETECTED	N	8000.	SF	DRYWALL W/LEVELING COMPOU	N/A
0151	BARRACKS	151-03-02	03-07-90	MECH ROOM	NONE DETECTED	N	8000.	SF	DRYWALL W/LEVELING COMPOU	N/A
0151	BARRACKS	151-03-03	03-07-90	MECH ROOM	NONE DETECTED	N	8000.	SF	DRYWALL W/LEVELING COMPOU	N/A
0151	BARRACKS	151-04-01	03-07-90	MECH ROOM	ASSUMED POSITIVE	N	4000.	SF	TRANSITE SIDING	O&M

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0152	BARRACKS	152-01-01	03-07-90	KITCHEN	NONE DETECTED	N	200.	SF	BEIGE FLOOR COVERING	N/A
0152	BARRACKS	152-01-02	03-07-90	KITCHEN	NONE DETECTED	N	200.	SF	BEIGE FLOOR COVERING	N/A
0152	BARRACKS	152-01-03	03-07-90	KITCHEN	NONE DETECTED	N	200.	SF	BEIGE FLOOR COVERING	N/A
0152	BARRACKS	152-02-01	03-07-90	KITCHEN/HALLWAY	NONE DETECTED	Y	800.	SF	2X4 CEILING TILE	N/A
0152	BARRACKS	152-02-02	03-07-90	KITCHEN/HALLWAY	NONE DETECTED	Y	800.	SF	2X4 CEILING TILE	N/A
0152	BARRACKS	152-02-03	03-07-90	KITCHEN/HALLWAY	NONE DETECTED	Y	800.	SF	2X4 CEILING TILE	N/A
0152	BARRACKS	152-03-01	03-07-90	STORAGE CLOSET	NONE DETECTED	N	5040.	SF	TEXTURED CEILING	N/A
0152	BARRACKS	152-03-02	03-07-90	STORAGE CLOSET	NONE DETECTED	N	5040.	SF	TEXTURED CEILING	N/A
0152	BARRACKS	152-03-03	03-07-90	STORAGE CLOSET	NONE DETECTED	N	5040.	SF	TEXTURED CEILING	N/A
0152	BARRACKS	152-04-01	03-07-90	ATTIC	NONE DETECTED	Y	2700.	SF	BLOWN-IN INSULATION	N/A
0152	BARRACKS	152-04-02	03-07-90	ATTIC	NONE DETECTED	Y	2700.	SF	BLOWN-IN INSULATION	N/A
0152	BARRACKS	152-04-03	03-07-90	ATTIC	NONE DETECTED	Y	2700.	SF	BLOWN-IN INSULATION	N/A
0152	BARRACKS	152-05-01	03-07-90	ATTIC	NONE DETECTED	Y	3000.	SF	ROCK WOOL INSULATION	N/A
0152	BARRACKS	152-05-02	03-07-90	ATTIC	NONE DETECTED	Y	3000.	SF	ROCK WOOL INSULATION	N/A
0152	BARRACKS	152-05-03	03-07-90	ATTIC	NONE DETECTED	Y	3000.	SF	ROCK WOOL INSULATION	N/A
0152	BARRACKS	152-06-01	03-07-90	MECH ROOM	40% CHRYSOTILE	Y	70.	SF	AIRCELL TANK INSULATION	REMOVAL
0152	BARRACKS	152-06-02	03-07-90	MECH ROOM	30% CHRYSOTILE	Y	70.	SF	AIRCELL TANK INSULATION	REMOVAL
0152	BARRACKS	152-06-03	03-07-90	MECH ROOM	45% CHRYSOTILE	Y	70.	SF	AIRCELL TANK INSULATION	REMOVAL
0152	BARRACKS	152-07-01	03-07-90	MECH ROOM	25% CHRYS 15% AMOS	Y	30.	SF	HARD TANK INSULATION	REMOVAL
0152	BARRACKS	152-07-02	03-07-90	MECH ROOM	35% CHRYS 15% AMOS	Y	30.	SF	HARD TANK INSULATION	REMOVAL
0152	BARRACKS	152-07-03	03-07-90	MECH ROOM	30% CHRYS 20% AMOS	Y	30.	SF	HARD TANK INSULATION	REMOVAL
0152	BARRACKS	152-08-01	03-07-90	MECH ROOM	NONE DETECTED	N	1500.	SF	DRYWALL W/LEVELING COMPOU	N/A
0152	BARRACKS	152-08-02	03-07-90	MECH ROOM	NONE DETECTED	N	1500.	SF	DRYWALL W/LEVELING COMPOU	N/A
0152	BARRACKS	152-08-03	03-07-90	MECH ROOM	NONE DETECTED	N	1500.	SF	DRYWALL W/LEVELING COMPOU	N/A
0152	BARRACKS	152-09-01	03-07-90	EXTERIOR	ASSUMED POSITIVE	N	4000.	SF	TRANSITE SIDING	O&M
0153	BARRACKS	153-01-01	03-07-90	ENTRY HALL	NOT ANALYZED	N	4000.	SF	WHITE FLOOR TILE	O&M
0153	BARRACKS	153-01-02	03-07-90	ENTRY HALL	NOT ANALYZED	N	4000.	SF	WHITE FLOOR TILE	O&M
0153	BARRACKS	153-01-03	03-07-90	ENTRY HALL	NOT ANALYZED	N	4000.	SF	WHITE FLOOR TILE	O&M
0153	BARRACKS	153-01-04	03-07-90	ENTRY HALL	2% CHRYSOTILE	N	4000.	SF	WHITE FLOOR TILE	O&M
0153	BARRACKS	153-01-05	03-07-90	ENTRY HALL	2% CHRYSOTILE	N	4000.	SF	WHITE FLOOR TILE	O&M
0153	BARRACKS	153-01-06	03-07-90	ENTRY HALL	5% CHRYSOTILE	N	4000.	SF	WHITE FLOOR TILE	O&M
0153	BARRACKS	153-02-01	03-07-90	PX	NONE DETECTED	Y	8.	EA	PIPE FITTINGS	N/A
0153	BARRACKS	153-02-02	03-07-90	PX	NONE DETECTED	Y	8.	EA	PIPE FITTINGS	N/A
0153	BARRACKS	153-03-01	03-07-90	PX	1% CHRYS 1% AMOS	Y	1600.	SF	2X4 CEILING TILE	O&M
0153	BARRACKS	153-03-02	03-07-90	PX	1% CHRYS 1% AMOS	Y	1600.	SF	2X4 CEILING TILE	O&M
0153	BARRACKS	153-03-03	03-07-90	PX	1% CHRYS 1% AMOS	Y	1600.	SF	2X4 CEILING TILE	O&M

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BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
0153	BARRACKS	153-04-01	03-07-90	EXTERIOR	30% CHRYSOTILE	N	5500.	SF	TRANSITE SIDINGE	O&M
0153	BARRACKS	153-04-02	03-07-90	EXTERIOR	30% CHRYSOTILE	N	5500.	SF	TRANSITE SIDINGE	O&M
0153	BARRACKS	153-04-03	03-07-90	EXTERIOR	30% CHRYSOTILE	N	5500.	SF	TRANSITE SIDINGE	O&M
0153	BARRACKS	153-05-01	11-27-90	THROUGHOUT	NONE DETECTED	N	500.	LF	COVE BASE W/MASTIC	N/A
0153	BARRACKS	153-05-02	11-27-90	THROUGHOUT	NONE DETECTED	N	500.	LF	COVE BASE W/MASTIC	N/A
0153	BARRACKS	153-05-03	11-27-90	THROUGHOUT	NONE DETECTED	N	500.	LF	COVE BASE W/MASTIC	N/A
0153	BARRACKS	153-06-01	11-27-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	DRYWALL W/LEVELING COMPOU	N/A
0153	BARRACKS	153-06-02	11-27-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	DRYWALL W/LEVELING COMPOU	N/A
0153	BARRACKS	153-06-03	11-27-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	DRYWALL W/LEVELING COMPOU	N/A
0155	BARRACKS	155-01-01	03-06-90	MECH ROOM	45% CHRYSOTILE	Y	50.	SF	DUCT INSULATION	REPAIR/O&M
0155	BARRACKS	155-01-02	03-06-90	MECH ROOM	40% CHRYSOTILE	Y	50.	SF	DUCT INSULATION	REPAIR/O&M
0155	BARRACKS	155-01-03	03-06-90	MECH ROOM	40% CHRYSOTILE	Y	50.	SF	DUCT INSULATION	REPAIR/O&M
0155	BARRACKS	155-02-01	03-06-90	PIN ROOM	5% CHRYS	Y	600.	SF	SPRAY-ON WALL MATERIAL	REMOVAL
0155	BARRACKS	155-02-02	03-06-90	PIN ROOM	10% CHRYS	Y	600.	SF	SPRAY-ON WALL MATERIAL	REMOVAL
0155	BARRACKS	155-02-03	03-06-90	PIN ROOM	5% CHRYS	Y	600.	SF	SPRAY-ON WALL MATERIAL	REMOVAL
0155	BARRACKS	155-02-04	03-06-90	PIN ROOM	7% CHRYS	Y	600.	SF	SPRAY-ON WALL MATERIAL	REMOVAL
0155	BARRACKS	155-02-05	03-06-90	PIN ROOM	16% CHRYS	Y	600.	SF	SPRAY-ON WALL MATERIAL	REMOVAL
0155	BARRACKS	155-02-06	03-06-90	PIN ROOM	18% CHRYS	Y	600.	SF	SPRAY-ON WALL MATERIAL	REMOVAL
0155	BARRACKS	155-03-01	03-06-90	PIN ROOM	7% CHRYS	N	600.	SF	BEIGE 9X9 FLOOR TILE	O&M
0155	BARRACKS	155-03-02	03-06-90	PIN ROOM	7% CHRYS	N	600.	SF	BEIGE 9X9 FLOOR TILE	O&M
0155	BARRACKS	155-04-01	03-06-90	PIN ROOM	NONE DETECTED	Y	2000.	SF	2X4 CEILING TILE	N/A
0155	BARRACKS	155-04-02	03-06-90	PIN ROOM	NONE DETECTED	Y	2000.	SF	2X4 CEILING TILE	N/A
0155	BARRACKS	155-04-03	03-06-90	PIN ROOM	NONE DETECTED	Y	2000.	SF	2X4 CEILING TILE	N/A
0155	BARRACKS	155-05-01	03-06-90	PIN ROOM	NONE DETECTED	N	1500.	SF	LINOLEUM- 2 LAYERS	O&M
0155	BARRACKS	155-05-02	03-06-90	PIN ROOM	15% CHRYSOTILE	N	1500.	SF	LINOLEUM- 2 LAYERS	O&M
0155	BARRACKS	155-05-03	03-06-90	PIN ROOM	10% CHRYSOTILE	N	1500.	SF	LINOLEUM- 2 LAYERS	O&M
0155	BARRACKS	155-09-01	03-06-90	THROUGHOUT	NONE DETECTED	N	50.	SF	COVE BASE W/MASTIC	N/A
0155	BARRACKS	155-09-02	03-06-90	THROUGHOUT	NONE DETECTED	N	50.	SF	COVE BASE W/MASTIC	N/A
0155	BARRACKS	155-09-03	03-06-90	THROUGHOUT	NONE DETECTED	N	50.	SF	COVE BASE W/MASTIC	N/A
0155	BARRACKS	155-10-01	03-06-90	THROUGHOUT	45% CHRYS	Y	5000.	SF	TRANSITE SIDING & CEILING	O&M
0155	BARRACKS	155-10-02	03-06-90	THROUGHOUT	30% CHRYS	Y	5000.	SF	TRANSITE SIDING & CEILING	O&M
0155	BARRACKS	155-10-03	03-06-90	THROUGHOUT	30% CHRYS	Y	5000.	SF	TRANSITE SIDING & CEILING	O&M
0501	501	501-01-01	3-7-90	office	none detected	n	5000.	SF	linoleum	n/a
0501	501	501-01-02	3-7-90	office	none detected	n	5000.	SF	linoleum	n/a
0501	501	501-02-01	3-7-90	west office	none detected	y	1000.	SF	2' x 4' ceiling tile	n/a
0501	501	501-02-02	3-7-90	west office	none detected	y	1000.	SF	2' x 4' ceiling tile	n/a

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0594	SHOPS & OFFICES	594-02-01	3-29-90	MECHANICAL ROOM	10% CH 15% AM	Y	150.	SF	TANK INSULATION	O&M
0594	SHOPS & OFFICES	594-02-02	3-29-90	MECHANICAL ROOM	5% CH 10% AM	Y	150.	SF	TANK INSULATION	O&M
0594	SHOPS & OFFICES	594-02-03	3-29-90	MECHANICAL ROOM	30% CH	Y	150.	SF	TANK INSULATION	O&M
0594	SHOPS & OFFICES	594-03-01	3-29-90	MECHANICAL ROOM	NONE DETECTED	Y	150.	SF	DUCT INSULATION	N/A
0594	SHOPS & OFFICES	594-03-02	3-29-90	MECHANICAL ROOM	NONE DETECTED	Y	150.	SF	DUCT INSULATION	N/A
0594	SHOPS & OFFICES	594-03-03	3-29-90	MECHANICAL ROOM	NONE DETECTED	Y	150.	SF	DUCT INSULATION	N/A
0594	SHOPS & OFFICES	594-04-01	3-29-90	MECHANICAL ROOM	NONE DETECTED	Y	80.	EA	PIPE FITTING INSULATION	O&M
0594	SHOPS & OFFICES	594-04-02	3-29-90	MECHANICAL ROOM	NONE DETECTED	Y	80.	EA	PIPE FITTING INSULATION	O&M
0594	SHOPS & OFFICES	594-04-03	3-29-90	MECHANICAL ROOM	5% CHRY	Y	80.	EA	PIPE FITTING INSULATION	O&M
0594	SHOPS & OFFICES	594-05-01	3-29-90	MECHANICAL ROOM	NONE DETECTED	Y	1.	EA	FLEX CONNECTOR	O&M
0594	SHOPS & OFFICES	594-05-02	3-29-90	MECHANICAL ROOM	NONE DETECTED	Y	1.	EA	FLEX CONNECTOR	O&M
0594	SHOPS & OFFICES	594-05-03	3-29-90	MECHANICAL ROOM	10% CHRY	Y	1.	EA	FLEX CONNECTOR	O&M
0594	SHOPS & OFFICES	594-06-01	3-29-90	PAINT AREA	NONE DETECTED	N	500.	SF	9X9 FLOOR TILE	O&M
0594	SHOPS & OFFICES	594-06-02	3-29-90	PAINT AREA	5% CHRY	N	500.	SF	9X9 FLOOR TILE	O&M
0594	SHOPS & OFFICES	594-06-03	3-29-90	PAINT AREA	NONE DETECTED	N	500.	SF	9X9 FLOOR TILE	O&M
0594	SHOPS & OFFICES	594-07-01	3-29-90	LAB	1% TREM	N	150.	SF	12X12 FLOOR TILE	O&M
0594	SHOPS & OFFICES	594-07-02	3-29-90	LAB	1% TREM	N	150.	SF	12X12 FLOOR TILE	O&M
0594	SHOPS & OFFICES	594-07-03	3-29-90	LAB	NONE DETECTED	N	150.	SF	12X12 FLOOR TILE	O&M
0594	SHOPS & OFFICES	594-08-01	3-29-90	LAB	NONE DETECTED	N	150.	SF	2X4 CEILING TILE	O&M
0594	SHOPS & OFFICES	594-08-02	3-29-90	LAB	NONE DETECTED	N	150.	SF	2X4 CEILING TILE	O&M
0594	SHOPS & OFFICES	594-08-03	3-29-90	LAB	NONE DETECTED	N	150.	SF	2X4 CEILING TILE	O&M
0594	SHOPS & OFFICES	594-09-01	3-29-90	OLD MECH ROOM	5% CH 15% AM	Y	150.	SF	BOILER INSULATION	O&M
0594	SHOPS & OFFICES	594-09-02	3-29-90	OLD MECH ROOM	10% CH 20% AM	Y	150.	SF	BOILER INSULATION	O&M
0594	SHOPS & OFFICES	594-09-03	3-29-90	OLD MECH ROOM	15% CH 20% AM	Y	150.	SF	BOILER INSULATION	O&M
0594	SHOPS & OFFICES	594-10-01	3-29-90	BOILER ROOM	30% CHRY	Y	20.	SF	ASBESTOS BLANKET	O&M
0594	SHOPS & OFFICES	594-11-01	3-29-90	BOILER ROOM	30% CH 20% AM	Y	300.	LF	PIPE INSULATION	O&M
0594	SHOPS & OFFICES	594-11-02	3-29-90	BOILER ROOM	30% CH 10% AM	Y	300.	LF	PIPE INSULATION	O&M
0594	SHOPS & OFFICES	594-11-03	3-29-90	BOILER ROOM	40% CH 10% AM	Y	300.	LF	PIPE INSULATION	O&M
0594	SHOPS & OFFICES	594-12-01	3-29-90	EXTERIOR	25% CHRY	Y	3000.	SF	C.A.B. SIDING	O&M
0594	SHOPS & OFFICES	594-12-02	3-29-90	EXTERIOR	25% CHRY	Y	3000.	SF	C.A.B. SIDING	O&M
0594	SHOPS & OFFICES	594-12-03	3-29-90	EXTERIOR	25% CHRY	Y	3000.	SF	C.A.B. SIDING	O&M
0594	SHOPS & OFFICES	594-13-01	3-29-90	LAB	NONE DETECTED	Y	400.	SF	SHEETROCK AND MUD	N/A
0594	SHOPS & OFFICES	594-13-02	3-29-90	LAB	NONE DETECTED	Y	400.	SF	SHEETROCK AND MUD	N/A
0594	SHOPS & OFFICES	594-13-03	3-29-90	LAB	NONE DETECTED	Y	400.	SF	SHEETROCK AND MUD	N/A
0594	SHOPS & OFFICES	594-14-01	3-29-90	O.C. ROOM	NONE DETECTED	N	15650.	SF	FLOOR TILE MASTIC	N/A
0594	SHOPS & OFFICES	594-14-02	3-29-90	O.C. ROOM	NONE DETECTED	N	15650.	SF	FLOOR TILE MASTIC	N/A

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0594	SHOPS & OFFICES	594-14-03	3-29-90	Q.C. ROOM	NONE DETECTED	N	15650.	SF	FLOOR TILE MASTIC	N/A
0595	ADMIN. GEN. PUR	595-01-01	3-27-90	CORRIDOR	NONE DETECTED	N	22500.	SF	FLOOR TILE	N/A
0595	ADMIN. GEN. PUR	595-01-02	3-27-90	CORRIDOR	NONE DETECTED	N	22500.	SF	FLOOR TILE	N/A
0595	ADMIN. GEN. PUR	595-01-03	3-27-90	CORRIDOR	NONE DETECTED	N	22500.	SF	FLOOR TILE	N/A
0595	ADMIN. GEN. PUR	595-01-04	3-27-90	CORRIDOR	NONE DETECTED	N	22500.	SF	FLOOR TILE	N/A
0595	ADMIN. GEN. PUR	595-01-05	3-27-90	CORRIDOR	NONE DETECTED	N	22500.	SF	FLOOR TILE	N/A
0595	ADMIN. GEN. PUR	595-01-06	3-27-90	CORRIDOR	20% CHRY	N	500.	SF	LINOLEUM	O&M
0595	ADMIN. GEN. PUR	595-02-01	3-27-90	OFFICE	20% CHRY	N	500.	SF	LINOLEUM	O&M
0595	ADMIN. GEN. PUR	595-02-02	3-27-90	OFFICE	20% CHRY	N	500.	SF	LINOLEUM	O&M
0595	ADMIN. GEN. PUR	595-02-03	3-27-90	OFFICE	NONE DETECTED	Y	12000.	SF	BLOWN IN INSULATION	N/A
0595	ADMIN. GEN. PUR	595-03-01	3-27-90	ATTIC	NONE DETECTED	Y	12000.	SF	BLOWN IN INSULATION	N/A
0595	ADMIN. GEN. PUR	595-03-02	3-27-90	ATTIC	NONE DETECTED	Y	12000.	SF	BLOWN IN INSULATION	N/A
0595	ADMIN. GEN. PUR	595-03-03	3-27-90	ATTIC	NONE DETECTED	Y	18000.	SF	GYPSUM BOARD	N/A
0595	ADMIN. GEN. PU	595-04-01	3-27-90	ATTIC	NONE DETECTED	Y	18000.	SF	GYPSUM BOARD	N/A
0595	ADMIN. GEN. PU	595-04-02	3-27-90	ATTIC	NONE DETECTED	Y	18000.	SF	GYPSUM BOARD	N/A
0595	ADMIN. GEN. PU	595-04-03	3-27-90	ATTIC	30% CH 20% AM	Y	300.	LF	PIPE INSULATION	O&M
0595	ADMIN. GEN. PUR	595-05-01	3-27-90	BOILER ROOM	30% CH 20% AM	Y	300.	LF	PIPE INSULATION	O&M
0595	ADMIN. GEN. PUR	595-05-02	3-27-90	BOILER ROOM	40% CH 20% AM	Y	300.	LF	PIPE INSULATION	O&M
0595	ADMIN. GEN. PUR	595-05-03	3-27-90	BOILER ROOM	40% CH 10% AM	Y	400.	SF	BOILER BREACHING	REPAIR/O&M
0595	ADMIN. GEN. PUR	595-06-01	3-27-90	BOILER ROOM	40% CH 30% AM	Y	400.	SF	BOILER BREACHING	REPAIR/O&M
0595	ADMIN. GEN. PUR	595-06-02	3-27-90	BOILER ROOM	30% CH 25% AM	Y	400.	SF	BOILER BREACHING	REPAIR/O&M
0595	ADMIN. GEN. PUR	595-06-03	3-27-90	BOILER ROOM	25% CHRY	N	20000.	SF	C.A.B. SIDING	O&M
0595	ADMIN. GEN. PUR	595-07-01	3-27-90	EXTERIOR	25% CHRY	N	20000.	SF	C.A.B. SIDING	O&M
0595	ADMIN. GEN. PUR	595-07-02	3-27-90	EXTERIOR	25% CHRY	N	20000.	SF	C.A.B. SIDING	O&M
0595	ADMIN. GEN. PUR	595-07-03	3-27-90	EXTERIOR	NONE DETECTED	N	20000.	SF	TAR PAPER	N/A
0595	ADMIN. GEN. PUR	595-08-01	3-27-90	EXTERIOR	NONE DETECTED	N	20000.	SF	TAR PAPER	N/A
0595	ADMIN. GEN. PUR	595-08-02	3-27-90	EXTERIOR	NONE DETECTED	N	20000.	SF	TAR PAPER	N/A
0595	ADMIN. GEN. PUR	595-08-03	3-27-90	EXTERIOR	NONE DETECTED	N	500.	LF	COVEBASE AND MASTIC	N/A
0595	ADMIN. GEN. PUR	595-09-01	3-27-90	OFFICES	NONE DETECTED	N	500.	LF	COVEBASE AND MASTIC	N/A
0595	ADMIN. GEN. PUR	595-09-02	3-27-90	OFFICES	NONE DETECTED	N	500.	LF	COVEBASE AND MASTIC	N/A
0595	ADMIN. GEN. PUR	595-09-03	3-27-90	OFFICES	ASSUME POSITIVE	N	1600.	SF	TRANSITE SIDING	O&M
0597	GEN. PURP.	597-01-01	4-2-90	EXTERIOR	NONE DETECTED	Y	250.	SF	INSULATION ABOVE CEILING	N/A
HOUSING	NORTH BASE HOUS	101C-01-01	2-27-90	KITCHEN	NONE DETECTED	Y	250.	SF	INSULATION ABOVE CEILING	N/A
HOUSING	NORTH BASE HOUS	101C-01-02	2-27-90	KITCHEN	NONE DETECTED	Y	250.	SF	INSULATION ABOVE CEILING	N/A
HOUSING	NORTH BASE HOUS	101C-01-03	2-27-90	KITCHEN	15% CHRY	N	500.	SF	FLOOR TILE	O&M
HOUSING	NORTH BASE HOUS	101C-02-01	2-27-90	KITCHEN						

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0600	GAS TURBINE BLD	600-01-01	4-2-90	NORTH EAST	NONE DETECTED	Y	20.	SF	DOOR INSULATION	N/A
0600	GAS TURBINE BLD	600-01-02	4-2-90	NORTH EAST	NONE DETECTED	Y	20.	SF	DOOR INSULATION	N/A
0600	GAS TURBINE BLD	600-02-01	4-2-90	SHOP	5% CHRY	N	18000.	SF	9X9 FLOOR TILE	O&M
0600	GAS TURBINE BLD	600-02-02	4-2-90	SHOP	2% CHRY	N	18000.	SF	9X9 FLOOR TILE	O&M
0600	GAS TURBINE BLD	600-02-03	4-2-90	SHOP	1% CHRY	N	18000.	SF	9X9 FLOOR TILE	O&M
0600	GAS TURBINE BLD	600-03-01	4-2-90	SHOP	2% CHRY	Y	500.	EA	PIPE JOINT INSULATION	O&M
0600	GAS TURBINE BLD	600-03-02	4-2-90	SHOP	1% CHRY	Y	500.	EA	PIPE JOINT INSULATION	O&M
0600	GAS TURBINE BLD	600-03-03	4-2-90	SHOP	5% CHRY	Y	500.	EA	PIPE JOINT INSULATION	O&M
0600	GAS TURBINE BLD	600-04-01	4-2-90	SHOP	NONE DETECTED	Y	400.	SF	WALL BOARD INSULATION	N/A
0600	GAS TURBINE BLD	600-04-02	4-2-90	SHOP	NONE DETECTED	Y	400.	SF	WALL BOARD INSULATION	N/A
0600	GAS TURBINE BLD	600-04-03	4-2-90	SHOP	NONE DETECTED	Y	400.	SF	WALL BOARD INSULATION	N/A
0600	GAS TURBINE BLD	600-05-01	4-2-90	SHOP	1% CHRY	N	600.	SF	BIEGE 9X9 FLOOR TILE	O&M
0600	GAS TURBINE BLD	600-05-02	4-2-90	SHOP	5% CHRY	N	600.	SF	BIEGE 9X9 FLOOR TILE	O&M
0600	GAS TURBINE BLD	600-05-03	4-2-90	SHOP	5% CHRY	N	600.	SF	BIEGE 9X9 FLOOR TILE	O&M
0600	GAS TURBINE BLD	600-06-01	4-2-90	SHOP	20% CHRY	N	250.	SF	LINOLEUM & MASTIC	O&M
0600	GAS TURBINE BLD	600-06-02	4-2-90	SHOP	35% CHRY	N	250.	SF	LINOLEUM & MASTIC	O&M
0600	GAS TURBINE BLD	600-06-03	4-2-90	SHOP	35% CHRY	N	250.	SF	LINOLEUM & MASTIC	O&M
0600	GAS TURBINE BLD	600-07-01	4-2-90	OFFICE	NONE DETECTED	N	100.	LF	COBEBASE & MASTIC	N/A
0600	GAS TURBINE BLD	600-07-02	4-2-90	OFFICE	NONE DETECTED	N	100.	LF	COBEBASE & MASTIC	N/A
0600	GAS TURBINE BLD	600-07-03	4-2-90	OFFICE	NONE DETECTED	N	100.	LF	COBEBASE & MASTIC	N/A
0600	GAS TURBINE BLD	600-08-01	4-2-90	ABOVE WEST OFFICE	NONE DETECTED	Y	5.	SF	VIBRATION DAMPER	N/A
0600	GAS TURBINE BLD	600-08-02	4-2-90	ABOVE WEST OFFICE	NONE DETECTED	Y	5.	SF	VIBRATION DAMPER	N/A
0600	GAS TURBINE BLD	600-08-03	4-2-90	ABOVE WEST OFFICE	NONE DETECTED	Y	5.	SF	VIBRATION DAMPER	N/A
0600	GAS TURBINE BLD	600-09-01	4-2-90	THROUGHOUT	NONE DETECTED	Y	3000.	SF	SHEETROCK & MUD	N/A
0600	GAS TURBINE BLD	600-09-02	4-2-90	THROUGHOUT	NONE DETECTED	Y	3000.	SF	SHEETROCK & MUD	N/A
0600	GAS TURBINE BLD	600-09-03	4-2-90	THROUGHOUT	NONE DETECTED	Y	3000.	SF	SHEETROCK & MUD	N/A
0600	GAS TURBINE BLD	600-10-01	4-2-90	THROUGHOUT	NONE DETECTED	Y	30000.	SF	2X4 CEILING TILE	N/A
0600	GAS TURBINE BLD	600-10-02	4-2-90	THROUGHOUT	NONE DETECTED	Y	30000.	SF	2X4 CEILING TILE	N/A
0600	GAS TURBINE BLD	600-10-03	4-2-90	THROUGHOUT	NONE DETECTED	Y	30000.	SF	2X4 CEILING TILE	N/A
0601	GENERAL ADMIN	601-01-01	4-2-90	SOUTH OFFICES	5% CHRY	N	2500.	SF	9X9 FLOOR TILE	O&M
0601	GENERAL ADMIN	601-01-02	4-2-90	SOUTH OFFICES	6% CHRY	N	2500.	SF	9X9 FLOOR TILE	O&M
0601	GENERAL ADMIN	601-01-03	4-2-90	SOUTH OFFICES	5% CHRY	N	2500.	SF	9X9 FLOOR TILE	O&M
0601	GENERAL ADMIN	601-02-01	4-2-90	SOUTH OFFICES	NONE DETECTED	Y	200.	SF	2X4 CEILING TILE	N/A
0601	GENERAL ADMIN	601-02-02	4-2-90	SOUTH OFFICES	NONE DETECTED	Y	200.	SF	2X4 CEILING TILE	N/A
0601	GENERAL ADMIN	601-02-03	4-2-90	SOUTH OFFICES	NONE DETECTED	Y	200.	SF	2X4 CEILING TILE	N/A
0601	GENERAL ADMIN	601-02-04	4-2-90	SOUTH OFFICES	NONE DETECTED	Y	200.	SF	2X4 CEILING TILE	N/A

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BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
0601	GENERAL ADMIN	601-03-01	4-2-90	SOUTH OFFICES	NONE DETECTED	N	200.	SF	12X12 FLOOR TILE	N/A
0601	GENERAL ADMIN	601-03-02	4-2-90	SOUTH OFFICES	NONE DETECTED	N	200.	SF	12X12 FLOOR TILE	N/A
0601	GENERAL ADMIN	601-03-03	4-2-90	SOUTH OFFICES	NONE DETECTED	N	200.	SF	12X12 FLOOR TILE	N/A
0601	GENERAL ADMIN	601-04-01	4-2-90	LIBARY	2% CHRY	N	500.	SF	9X9 GREEN FLOOR TILE	O&M
0601	GENERAL ADMIN	601-04-02	4-2-90	LIBARY	2% CHRY	N	500.	SF	9X9 GREEN FLOOR TILE	O&M
0601	GENERAL ADMIN	601-04-03	4-2-90	LIBARY	2% CHRY	N	500.	SF	9X9 GREEN FLOOR TILE	O&M
0601	GENERAL ADMIN	601-05-01	4-2-90	SHOP	NONE DETECTED	Y	200.	EA	PIPE FITTING INSULATION	O&M
0601	GENERAL ADMIN	601-05-02	4-2-90	SHOP	2% AMO	Y	200.	EA	PIPE FITTING INSULATION	O&M
0601	GENERAL ADMIN	601-05-03	4-2-90	SHOP	NONE DETECTED	Y	200.	EA	PIPE FITTING INSULATION	O&M
0601	GENERAL ADMIN	601-05-04	4-2-90	SHOP	5% CHRY	Y	200.	EA	PIPE FITTING INSULATION	O&M
0601	GENERAL ADMIN	601-06-01	4-2-90	MECH ROOM	NONE DETECTED	Y	4.	EA	VIBRATION DAMPER	N/A
0601	GENERAL ADMIN	601-06-02	4-2-90	MECH ROOM	NONE DETECTED	Y	4.	EA	VIBRATION DAMPER	N/A
0601	GENERAL ADMIN	601-06-03	4-2-90	MECH ROOM	NONE DETECTED	Y	4.	EA	VIBRATION DAMPER	N/A
0601	GENERAL ADMIN	601-07-01	4-2-90	EXTERIOR	35% CHRY	N	9500.	SF	C.A.B. SIDING	O&M
0601	GENERAL ADMIN	601-07-02	4-2-90	EXTERIOR	35% CHRY				C.A.B. SIDING	O&M
0601	GENERAL ADMIN	601-07-03	4-2-90	EXTERIOR	35% CHRY	N	9500.	SF	C.A.B. SIDING	O&M
0601	GENERAL ADMIN	601-08-01	4-2-90	EXTERIOR	10% CHRY	N	500.	LF	BUILDING CAULK	O&M
0601	GENERAL ADMIN	601-08-02	4-2-90	EXTERIOR	2% CHRY	N	500.	LF	BUILDING CAULK	O&M
0601	GENERAL ADMIN	601-08-03	4-2-90	EXTERIOR	10% CHRY	N	500.	LF	BUILDING CAULK	O&M
0601	GENERAL ADMIN	601-09-01	4-2-90	THROUGHOUT	NONE DETECTED	Y	2500.	SF	SHEETROCK & MUD	N/A
0601	GENERAL ADMIN	601-09-02	4-2-90	THROUGHOUT	NONE DETECTED	Y	2500.	SF	SHEETROCK & MUD	N/A
0601	GENERAL ADMIN	601-09-03	4-2-90	THROUGHOUT	TRACE CHRY	Y	2500.	SF	SHEETROCK & MUD	N/A
0601	GENERAL ADMIN	601-10-01	4-2-90	OFFICEHOUT	NONE DETECTED	N	200.	LF	COVEBASE & MASTIC	N/A
0601	GENERAL ADMIN	601-10-02	4-2-90	OFFICE	NONE DETECTED	N	200.	LF	COVEBASE & MASTIC	N/A
0601	GENERAL ADMIN	601-10-03	4-2-90	OFFICE	NONE DETECTED	N	200.	LF	COVEBASE & MASTIC	N/A
0601	GENERAL ADMIN	601-11-01	4-2-90	OFFICE	8% CHRY	N	5000.	SF	FLOOR TILE & MASTIC	O&M
0601	GENERAL ADMIN	601-11-02	4-2-90	OFFICE	4% CHRY	N	5000.	SF	FLOOR TILE & MASTIC	O&M
0601	GENERAL ADMIN	601-11-03	4-2-90	OFFICE	2% CHRY	N	5000.	SF	FLOOR TILE & MASTIC	O&M
0602	MAINTENANCE SHO	602-01-01	4-2-90	SHOP	NONE DETECTED	Y	60.	EA	PIPE INSULATION	N/A
0602	MAINTENANCE SHO	602-01-02	4-2-90	SHOP	NONE DETECTED	Y	60.	EA	PIPE INSULATION	N/A
0602	MAINTENANCE SHO	602-01-03	4-2-90	SHOP	NONE DETECTED	Y	60.	EA	PIPE INSULATION	N/A
0602	MAINTENANCE SHO	602-02-01	4-2-90	SHOP	20% CH 25% AM	Y	2200.	LF	PIPE INSULATION	O&M
0602	MAINTENANCE SHO	602-02-02	4-2-90	SHOP	10% CH 30% AM	Y	2200.	LF	PIPE INSULATION	O&M
0602	MAINTENANCE SHO	602-02-03	4-2-90	SHOP	45% CH 15% AM	Y	2200.	LF	PIPE INSULATION	O&M
0602	MAINTENANCE SHO	602-03-01	4-2-90	SHOP	NONE DETECTED	Y	30000.	SF	CEILING BOARD	N/A
0602	MAINTENANCE SHO	602-04-01	4-2-90	OFFICE	30% CHRY	N	1500.	SF	LINOLEUM	O&M

ASBESTOS AUDIT

ASBESTOS DATABASE FIELD DATA
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BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
0602	MAINTENANCE SHO	602-04-02	4-2-90	OFFICE	NONE DETECTED	N	1500.	SF	LINOLEUM	O&M
0602	MAINTENANCE SHO	602-04-03	4-2-90	OFFICE	NONE DETECTED	N	1500.	SF	LINOLEUM	O&M
0602	MAINTENANCE SHO	602-04-04	4-2-90	OFFICE	NONE DETECTED	N	1500.	SF	LINOLEUM	O&M
0602	MAINTENANCE SHO	602-04-05	4-2-90	OFFICE	30% CHRY	N	1500.	SF	LINOLEUM	O&M
0602	MAINTENANCE SHO	602-05-01	4-2-90	OFFICE	NONE DETECTED	N	400.	SF	9X9 FLOOR TILE	N/A
0602	MAINTENANCE SHO	602-05-02	4-2-90	OFFICE	NONE DETECTED	N	400.	SF	9X9 FLOOR TILE	N/A
0602	MAINTENANCE SHO	602-05-03	4-2-90	OFFICE	2% CHRY	N	400.	SF	9X9 FLOOR TILE	N/A
0602	MAINTENANCE SHO	602-06-01	4-2-90	BREAKROOM	NONE DETECTED	Y	2000.	SF	CEILING TILE	N/A
0602	MAINTENANCE SHO	602-06-02	4-2-90	BREAKROOM	NONE DETECTED	Y	2000.	SF	CEILING TILE	N/A
0602	MAINTENANCE SHO	602-06-03	4-2-90	BREAKROOM	NONE DETECTED	Y	2000.	SF	CEILING TILE	N/A
0602	MAINTENANCE SHO	602-07-01	4-2-90	TEST AREA	NONE DETECTED	N	3000.	SF	MASTIC	N/A
0602	MAINTENANCE SHO	602-08-01	4-2-90	COMPUTER ROOM	1% TREM	N	150.	SF	12X12 FLOOR TILE	N/A
0602	MAINTENANCE SHO	602-08-02	4-2-90	COMPUTER ROOM	NONE DETECTED	N	150.	SF	12X12 FLOOR TILE	N/A
0602	MAINTENANCE SHO	602-09-01	4-2-90	EXTERIOR	35% CHRY	N	500.	SF	C.A.B. SIDING	O&M
0602	MAINTENANCE SHO	602-09-02	4-2-90	EXTERIOR	35% CHRY	N	500.	SF	C.A.B. SIDING	O&M
0602	MAINTENANCE SHO	602-09-03	4-2-90	EXTERIOR	35% CHRY	N	500.	SF	C.A.B. SIDING	O&M
0602	MAINTENANCE SHO	602-10-01	4-2-90	OFFICE	NONE DETECTED	N	100.	LF	COVEBASE AND MASTIC	O&M
0602	MAINTENANCE SHO	602-10-02	4-2-90	OFFICE	NONE DETECTED	N	100.	LF	COVEBASE AND MASTIC	O&M
0602	MAINTENANCE SHO	602-10-03	4-2-90	OFFICE	NONE DETECTED	N	100.	LF	COVEBASE AND MASTIC	O&M
0602	MAINTENANCE SHO	602-11-01	4-2-90	OPEN SHOP	3% CHRY	N	100.	SF	DK TAN 9X9 FLOOR TILE	O&M
0602	MAINTENANCE SHO	602-11-02	4-2-90	OPEN SHOP	4% CHRY	N	100.	SF	DK TAN 9X9 FLOOR TILE	O&M
0602	MAINTENANCE SHO	602-11-03	4-2-90	OPEN SHOP	3% CHRY	N	100.	SF	DK TAN 9X9 FLOOR TILE	O&M
0602	MAINTENANCE SHO	602-12-01	4-2-90	THROUGHOUT	NONE DETECTED	Y	4000.	SF	GYPSUM BOARD AND MUD	N/A
0602	MAINTENANCE SHO	602-12-02	4-2-90	THROUGHOUT	NONE DETECTED	Y	4000.	SF	GYPSUM BOARD AND MUD	N/A
0602	MAINTENANCE SHO	602-12-03	4-2-90	THROUGHOUT	NONE DETECTED	Y	4000.	SF	GYPSUM BOARD AND MUD	N/A
0603	VEH C/REB DEP	603-01-01	4-2-90	SHOP	NONE DETECTED	Y	40.	EA	PIPE FITTING INSUL.	N/A
0603	VEH C/REB DEP	603-01-02	4-2-90	SHOP	NONE DETECTED	Y	40.	EA	PIPE FITTING INSUL.	N/A
0603	VEH C/REB DEP	603-01-03	4-2-90	SHOP	NONE DETECTED	Y	40.	EA	PIPE FITTING INSUL.	N/A
0603	VEH C/REB DEP	603-02-01	4-2-90	SHOP	NONE DETECTED	Y	400.	SF	BOILER JACKET	O&M
0603	VEH C/REB DEP	603-02-02	4-2-90	SHOP	NONE DETECTED	Y	400.	SF	BOILER JACKET	O&M
0603	VEH C/REB DEP	603-02-03	4-2-90	SHOP	1% CHRY	Y	400.	SF	BOILER JACKET	O&M
0603	VEH C/REB DEP	603-02-04	4-2-90	SHOP	4% CHRY	Y	400.	SF	BOILER JACKET	O&M
0603	VEH C/REB DEP	603-03-01	4-2-90	SHOP	10% AMO	Y	1100.	LF	PIPE INSULATION	O&M
0603	VEH C/REB DEP	603-03-02	4-2-90	SHOP	10% AMO	Y	1100.	LF	PIPE INSULATION	O&M
0603	VEH C/REB DEP	603-04-01	4-2-90	BREAKROOM	NONE DETECTED	N	400.	SF	9X9 FLOOR TILE	N/A
0603	VEH C/REB DEP	603-04-02	4-2-90	BREAKROOM	NONE DETECTED	N	400.	SF	9X9 FLOOR TILE	N/A

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ASBESTOS DATABASE FIELD DATA
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BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
0603	VEH C/REB DEP	603-04-03	4-2-90	BREAKROOM	NONE DETECTED	N	400.	SF	9X9 FLOOR TILE	N/A
0603	VEH C/REB DEP	603-05-01	4-2-90	OFFICE	NONE DETECTED	N	400.	SF	12X12 FLOOR TILE	N/A
0603	VEH C/REB DEP	603-05-02	4-2-90	OFFICE	NONE DETECTED	N	400.	SF	12X12 FLOOR TILE	N/A
0603	VEH C/REB DEP	603-05-03	4-2-90	OFFICE	TRACE CHRY	N	400.	SF	12X12 FLOOR TILE	N/A
0603	VEH C/REB DEP	603-06-01	4-2-90	BREAKROOM	NONE DETECTED	N	60.	LF	COVEBASE & MASTIC	N/A
0603	VEH C/REB DEP	603-06-02	4-2-90	BREAKROOM	NONE DETECTED	N	60.	LF	COVEBASE & MASTIC	N/A
0603	VEH C/REB DEP	603-06-03	4-2-90	BREAKROOM	NONE DETECTED	N	60.	LF	COVEBASE & MASTIC	N/A
0603	VEH C/REB DEP	603-07-01	4-2-90	OFFICES	NONE DETECTED	Y	2000.	SF	GYPSUM BOARD & MUD	N/A
0603	VEH C/REB DEP	603-07-02	4-2-90	OFFICES	NONE DETECTED	Y	2000.	SF	GYPSUM BOARD & MUD	N/A
0603	VEH C/REB DEP	603-07-03	4-2-90	OFFICES	TRACE CHRY	Y	2000.	SF	GYPSUM BOARD & MUD	N/A
0604	VEH C/REB DEP	604-01-01	4-2-90	OFFICES	2% CHRY	N	150.	SF	12X12 FLOOR TILE	O&M
0604	VEH C/REB DEP	604-01-02	4-2-90	OFFICES	2% CHRY	N	150.	SF	12X12 FLOOR TILE	O&M
0604	VEH C/REB DEP	604-01-03	4-2-90	OFFICES	2% CHRY	N	150.	SF	12X12 FLOOR TILE	O&M
0604	VEH C/REB DEP	604-01-04	4-2-90	OFFICES	5% CHRY	N	150.	SF	12X12 FLOOR TILE	O&M
0604	VEH C/REB DEP	604-01-05	4-2-90	OFFICES	NONE DETECTED	N	150.	SF	12X12 FLOOR TILE	O&M
0604	VEH C/REB DEP	604-02-01	4-2-90	OFFICES	15% CHRY	N	150.	SF	LINOLEUM	O&M
0604	VEH C/REB DEP	604-02-02	4-2-90	OFFICES	15% CHRY	N	150.	SF	LINOLEUM	O&M
0604	VEH C/REB DEP	604-02-03	4-2-90	OFFICES	15% CHRY	N	150.	SF	LINOLEUM	O&M
0604	VEH C/REB DEP	604-03-01	4-2-90	OFFICES	NONE DETECTED	Y	250.	SF	2X4 CEILING TILE	O&M
0604	VEH C/REB DEP	604-03-02	4-2-90	OFFICES	NONE DETECTED	Y	250.	SF	2X4 CEILING TILE	O&M
0604	VEH C/REB DEP	604-03-03	4-2-90	OFFICES	NONE DETECTED	Y	250.	SF	2X4 CEILING TILE	O&M
0604	VEH C/REB DEP	604-04-01	4-2-90	LOCKER ROOM	NONE DETECTED	N	150.	SF	12X12 FLOOR TILE	N/A
0604	VEH C/REB DEP	604-04-02	4-2-90	LOCKER ROOM	NONE DETECTED	N	150.	SF	12X12 FLOOR TILE	N/A
0604	VEH C/REB DEP	604-04-03	4-2-90	LOCKER ROOM	NONE DETECTED	N	150.	SF	12X12 FLOOR TILE	N/A
0604	VEH C/REB DEP	604-05-01	4-2-90	EXTERIOR	35% CHRY	N	18000.	SF	C.A.B. SIDING	O&M
0604	VEH C/REB DEP	604-05-02	4-2-90	EXTERIOR	35% CHRY	N	18000.	SF	C.A.B. SIDING	O&M
0604	VEH C/REB DEP	604-05-03	4-2-90	EXTERIOR	35% CHRY	N	18000.	SF	C.A.B. SIDING	O&M
0604	VEH C/REB DEP	604-06-01	4-2-90	THROUGHOUT	NONE DETECTED	Y	1000.	SF	SHEETROCK & MUD	N/A
0604	VEH C/REB DEP	604-06-02	4-2-90	THROUGHOUT	NONE DETECTED	Y	1000.	SF	SHEETROCK & MUD	N/A
0604	VEH C/REB DEP	604-06-03	4-2-90	THROUGHOUT	NONE DETECTED	Y	1000.	SF	SHEETROCK & MUD	N/A
0604	VEH C/REB DEP	604-07-01	4-2-90	OFFICE	NONE DETECTED	N	150.	SF	ADHESIVE	N/A
0604	VEH C/REB DEP	604-07-02	4-2-90	OFFICE	TRACE CHRY	N	150.	SF	ADHESIVE	N/A
0604	VEH C/REB DEP	604-08-01	4-2-90	OFFICE	TRACE CHRY	N	100.	SF	12X12 FLOOR TILE	N/A
0604	VEH C/REB DEP	604-08-02	4-2-90	OFFICE	TRACE CHRY	N	100.	SF	12X12 FLOOR TILE	N/A
0604	VEH C/REB DEP	604-08-03	4-2-90	OFFICE	TRACE CHRY	N	100.	SF	12X12 FLOOR TILE	N/A
0604	VEH C/REB DEP	604-09-01	4-2-90	OFFICE	8% CHRY	N	150.	SF	9X9 FLOOR TILE & MASTIC	O&M

ASBESTOS AUDIT

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BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
0604	VEH C/REB DEP	604-09-02	4-2-90	OFFICE	10% CHRY	N	150.	SF	9X9 FLOOR TILE & MASTIC	O&M
0604	VEH C/REB DEP	604-09-03	4-2-90	OFFICE	10% CHRY	N	150.	SF	9X9 FLOOR TILE & MASTIC	O&M
0604	VEH C/REB DEP	604-10-01	4-2-90	OFFICE	NONE DETECTED	N	60.	LF	COVEBASE & MASTIC	N/A
0604	VEH C/REB DEP	604-10-02	4-2-90	OFFICE	NONE DETECTED	N	60.	LF	COVEBASE & MASTIC	N/A
0604	VEH C/REB DEP	604-10-03	4-2-90	OFFICE	NONE DETECTED	N	60.	LF	COVEBASE & MASTIC	N/A
0604	VEH C/REB DEP	604-11-03	4-2-90	MECH ROOM	70% CHRY	Y	1.	EA	PIPE FITTING INSUL.	
0605	GENERAL PURPOSE	605-01-01	4-3-90	OFFICE	10% CHRY	N	4600.	SF	9X9 FLOOR TILE	O&M
0605	GENERAL PURPOSE	605-01-02	4-3-90	OFFICE	10% CHRY	N	4600.	SF	9X9 FLOOR TILE	O&M
0605	GENERAL PURPOSE	605-02-01	4-3-90	ENGINEER SUPPORT	NONE DETECTED	N	6000.	SF	12X12 FLOOR TILE	N/A
0605	GENERAL PURPOSE	605-02-02	4-3-90	ENGINEER SUPPORT	NONE DETECTED	N	6000.	SF	12X12 FLOOR TILE	N/A
0605	GENERAL PURPOSE	605-02-03	4-3-90	ENGINEER SUPPORT	TRACE CHRY	N	6000.	SF	12X12 FLOOR TILE	N/A
0605	GENERAL PURPOSE	605-03-01	4-3-90	OFFICE	NONE DETECTED	Y	11500.	SF	2X4 CEILING TILE	N/A
0605	GENERAL PURPOSE	605-03-02	4-3-90	OFFICE	NONE DETECTED	Y	11500.	SF	2X4 CEILING TILE	N/A
0605	GENERAL PURPOSE	605-03-03	4-3-90	OFFICE	NONE DETECTED	Y	11500.	SF	2X4 CEILING TILE	N/A
0605	GENERAL PURPOSE	605-04-01	4-3-90	TRAINING AREA	NONE DETECTED	N	900.	SF	9X9 FLOOR TILE	O&M
0605	GENERAL PURPOSE	605-04-02	4-3-90	TRAINING AREA	2% CHRY	N	900.	SF	9X9 FLOOR TILE	O&M
0605	GENERAL PURPOSE	605-04-03	4-3-90	TRAINING AREA	2% CHRY	N	900.	SF	9X9 FLOOR TILE	O&M
0605	GENERAL PURPOSE	605-05-01	4-3-90	CORRIDOR	NONE DETECTED	N	100.	SF	LINOLEUM	N/A
0605	GENERAL PURPOSE	605-05-02	4-3-90	CORRIDOR	NONE DETECTED	N	100.	SF	LINOLEUM	N/A
0605	GENERAL PURPOSE	605-05-03	4-3-90	CORRIDOR	NONE DETECTED	N	100.	SF	LINOLEUM	N/A
0605	GENERAL PURPOSE	605-06-01	4-3-90	DECAL SECTION	5% CHRY	N	1500.	SF	12X12 FLOOR TILE	O&M
0605	GENERAL PURPOSE	605-07-01	4-3-90	EXTERIOR	17% CHRY	N	9000.	SF	TRANSITE SIDING	O&M
0605	GENERAL PURPOSE	605-07-02	4-3-90	EXTERIOR	17% CHRY	N	9000.	SF	TRANSITE SIDING	O&M
0605	GENERAL PURPOSE	605-07-03	4-3-90	EXTERIOR	17% CHRY	N	9000.	SF	TRANSITE SIDING	O&M
0605	GENERAL PURPOSE	605-08-01	4-3-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	GYPSUM BOARD	N/A
0605	GENERAL PURPOSE	605-08-02	4-3-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	GYPSUM BOARD	N/A
0605	GENERAL PURPOSE	605-08-03	4-3-90	THROUGHOUT	NONE DETECTED	Y	8000.	SF	GYPSUM BOARD	N/A
0605	GENERAL PURPOSE	605-09-01	4-3-90	THROUGHOUT	NONE DETECTED	N	600.	LF	COVEBASE & MASTIC	N/A
0605	GENERAL PURPOSE	605-09-02	4-3-90	THROUGHOUT	NONE DETECTED	N	600.	LF	COVEBASE & MASTIC	N/A
0605	GENERAL PURPOSE	605-09-03	4-3-90	THROUGHOUT	NONE DETECTED	N	600.	LF	COVEBASE & MASTIC	N/A
0607	VEH C/REB DEP	607-01-01	4-3-90	SHOP AREA	30% CH 25% AMO	Y	350.	LF	PIPE INSULATION	O&M
0607	VEH C/REB DEP	607-01-02	4-3-90	SHOP AREA	25% CH 30% AMO	Y	350.	LF	PIPE INSULATION	O&M
0607	VEH C/REB DEP	607-02-01	4-3-90	BREAKROOM	NONE DETECTED	N	400.	SF	LINOLEUM	N/A
0607	VEH C/REB DEP	607-02-02	4-3-90	BREAKROOM	NONE DETECTED	N	400.	SF	LINOLEUM	N/A
0607	VEH C/REB DEP	607-02-03	4-3-90	BREAKROOM	NONE DETECTED	N	400.	SF	LINOLEUM	N/A
0607	VEH C/REB DEP	607-03-01	4-3-90	OFFICE	10% CHRY	N	120.	SF	9x9 FLOOR TILE	O&M

ASBESTOS AUDIT

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0607	VEH C/REB DEP	607-04-01	4-3-90	OFFICE	15% CHRY	N	150.	SF	9X9 FLOOR TILE	O&M
0607	VEH C/REB DEP	607-05-01	4-3-90	BREAKROOM	NONE DETECTED	N	400.	SF	CEILING TILE	N/A
0607	VEH C/REB DEP	607-05-02	4-3-90	BREAKROOM	NONE DETECTED	N	400.	SF	CEILING TILE	N/A
0607	VEH C/REB DEP	607-05-03	4-3-90	BREAKROOM	NONE DETECTED	N	400.	SF	CEILING TILE	N/A
0607	VEH C/REB DEP	607-06-01	4-3-90	N.W. OFFICE	NONE DETECTED	N	50.	LF	COVEBASE & MASTIC	N/A
0607	VEH C/REB DEP	607-06-02	4-3-90	N.W. OFFICE	NONE DETECTED	N	50.	LF	COVEBASE & MASTIC	N/A
0607	VEH C/REB DEP	607-06-03	4-3-90	N.W. OFFICE	NONE DETECTED	N	50.	LF	COVEBASE & MASTIC	N/A
0607	VEH C/REB DEP	607-07-01	4-3-90	OFFICES	NONE DETECTED	Y	2000.	SF	GYPSUM BOARD	N/A
0607	VEH C/REB DEP	607-07-02	4-3-90	OFFICES	NONE DETECTED	Y	2000.	SF	GYPSUM BOARD	N/A
0607	VEH C/REB DEP	607-07-03	4-3-90	OFFICES	NONE DETECTED	Y	2000.	SF	GYPSUM BOARD	N/A
0608	METAL & WOOD SH	608-01-01	4-3-90	2ND FLR OFFICE	10% CHRY	N	900.	SF	9X9 FLOOR TILE	O&M
0608	METAL & WOOD SH	608-01-02	4-3-90	2ND FLR OFFICE	5% CHRY	N	900.	SF	9X9 FLOOR TILE	O&M
0608	METAL & WOOD SH	608-01-03	4-3-90	2ND FLR OFFICE	5% CHRY	N	900.	SF	9X9 FLOOR TILE	O&M
0608	METAL & WOOD SH	608-02-01	4-3-90	SOUTH OFFICE	NONE DETECTED	N	600.	SF	9X9 FLOOR TILE	N/A
0608	METAL & WOOD SH	608-02-02	4-3-90	SOUTH OFFICE	NONE DETECTED	N	600.	SF	9X9 FLOOR TILE	N/A
0608	METAL & WOOD SH	608-02-03	4-3-90	SOUTH OFFICE	NONE DETECTED	N	600.	SF	9X9 FLOOR TILE	N/A
0608	METAL & WOOD SH	608-02-04	4-3-90	SOUTH OFFICE	NONE DETECTED	N	600.	SF	9X9 FLOOR TILE	N/A
0608	METAL & WOOD SH	608-03-01	4-3-90	SHOP OFFICE	NONE DETECTED	Y	400.	SF	2X4 CEILING TILE	N/A
0608	METAL & WOOD SH	608-03-02	4-3-90	SHOP OFFICE	NONE DETECTED	Y	400.	SF	2X4 CEILING TILE	N/A
0608	METAL & WOOD SH	608-03-03	4-3-90	SHOP OFFICE	NONE DETECTED	Y	400.	SF	2X4 CEILING TILE	N/A
0608	METAL & WOOD SH	608-04-01	4-3-90	BREAKROOM	NONE DETECTED	N	300.	SF	LINOLEUM	N/A
0608	METAL & WOOD SH	608-04-02	4-3-90	BREAKROOM	NONE DETECTED	N	300.	SF	LINOLEUM	N/A
0608	METAL & WOOD SH	608-04-03	4-3-90	BREAKROOM	1% CHRY	N	300.	SF	LINOLEUM	N/A
0608	METAL & WOOD SH	608-05-01	4-3-90	SOUTH BASEMENT	NONE DETECTED	N	150.	SF	LINOLEUM	N/A
0608	METAL & WOOD SH	608-05-02	4-3-90	SOUTH BASEMENT	NONE DETECTED	N	150.	SF	LINOLEUM	N/A
0608	METAL & WOOD SH	608-05-03	4-3-90	SOUTH BASEMENT	NONE DETECTED	N	150.	SF	LINOLEUM	N/A
0608	METAL & WOOD SH	608-06-01	4-3-90	BREAKROOM	3% CHRY	N	800.	SF	12X12 FLOOR TILE	O&M
0608	METAL & WOOD SH	608-06-02	4-3-90	BREAKROOM	3% CHRY	N	800.	SF	12X12 FLOOR TILE	O&M
0608	METAL & WOOD SH	608-06-03	4-3-90	BREAKROOM	2% CHRY	N	800.	SF	12X12 FLOOR TILE	O&M
0608	METAL & WOOD SH	608-07-01	4-3-90	BREAKROOM	NONE DETECTED	N	80.	LF	COVEBASE & MASTIC	N/A
0608	METAL & WOOD SH	608-07-02	4-3-90	BREAKROOM	NONE DETECTED	N	80.	LF	COVEBASE & MASTIC	N/A
0608	METAL & WOOD SH	608-07-03	4-3-90	BREAKROOM	NONE DETECTED	N	80.	LF	COVEBASE & MASTIC	N/A
0608	METAL & WOOD SH	608-08-01	4-3-90	THROUGHOUT	NONE DETECTED	Y	3500.	SF	GYPSUM BOARD	N/A
0608	METAL & WOOD SH	608-08-02	4-3-90	THROUGHOUT	NONE DETECTED	Y	3500.	SF	GYPSUM BOARD	N/A
0608	METAL & WOOD SH	608-08-03	4-3-90	THROUGHOUT	NONE DETECTED	Y	3500.	SF	GYPSUM BOARD	N/A
0609	STREET CLEAN FA	609-01-01	4-3-90	OFFICE	30% CHRY	N	100.	SF	LINOLEUM	O&M

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BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
0609	STREET CLEAN FA	609-01-02	4-3-90	OFFICE	25% CHRY	N	100.	SF	LINOLEUM	O&M
0609	STREET CLEAN FA	609-01-03	4-3-90	OFFICE	35% CHRY	N	100.	SF	LINOLEUM	O&M
0609	STREET CLEAN FA	609-02-01	4-3-90	EXTERIOR	35% CHRY	N	6000.	SF	TRANSITE SIDING	O&M
0609	STREET CLEAN FA	609-02-02	4-3-90	EXTERIOR	35% CHRY	N	6000.	SF	TRANSITE SIDING	O&M
0609	STREET CLEAN FA	609-02-03	4-3-90	EXTERIOR	35% CHRY	N	6000.	SF	TRANSITE SIDING	O&M
0609	STREET CLEAN FA	609-03-01	4-3-90	INTERIOR WALLS	30% CHRY	N	1000.	SF	TRANSITE WALL BOARD	O&M
0609	STREET CLEAN FA	609-03-02	4-3-90	INTERIOR WALLS	30% CHRY	N	1000.	SF	TRANSITE WALL BOARD	O&M
0609	STREET CLEAN FA	609-03-03	4-3-90	INTERIOR WALLS	30% CHRY	N	1000.	SF	TRANSITE WALL BOARD	O&M
0609	STREET CLEAN FA	609-04-01	4-3-90	OFFICE	NONE DETECTED	N	100.	LF	COVEBASE & MASTIC	N/A
0609	STREET CLEAN FA	609-04-02	4-3-90	OFFICE	NONE DETECTED	N	100.	LF	COVEBASE & MASTIC	N/A
0609	STREET CLEAN FA	609-04-03	4-3-90	OFFICE	NONE DETECTED	N	100.	LF	COVEBASE & MASTIC	N/A
0609	STREET CLEAN FA	609-05-01	4-3-90	OFFICE	NONE DETECTED	Y	2500.	SF	SHEETROCK & MUD	N/A
0609	STREET CLEAN FA	609-05-02	4-3-90	OFFICE	NONE DETECTED	Y	2500.	SF	SHEETROCK & MUD	N/A
0609	STREET CLEAN FA	609-05-03	4-3-90	OFFICE	NONE DETECTED	Y	2500.	SF	SHEETROCK & MUD	N/A
0611	GENERAL PURPOSE	611-01-01	4-3-90	OFFICE	2% CHRY	N	150.	SF	9X9 FLOOR TILE	O&M
0611	GENERAL PURPOSE	611-02-01	4-3-90	PAINT ROOM	30% CHRY	N	200.	LF	AIRCELL PIPE INSULATION	O&M
0611	GENERAL PURPOSE	611-02-02	4-3-90	PAINT ROOM	30% CHRY	N	200.	LF	AIRCELL PIPE INSULATION	O&M
0611	GENERAL PURPOSE	611-02-03	4-3-90	PAINT ROOM	30% CHRY	N	200.	LF	AIRCELL PIPE INSULATION	O&M
0611	GENERAL PURPOSE	611-03-01	4-3-90	PAINT ROOM	30% CH 10% AM	Y	2000.	LF	HARD PIPE INSULATION	O&M
0611	GENERAL PURPOSE	611-03-02	4-3-90	PAINT ROOM	20% CH 30% AM	Y	2000.	LF	HARD PIPE INSULATION	O&M
0611	GENERAL PURPOSE	611-03-03	4-3-90	PAINT ROOM	30% CH 20% AM	Y	2000.	LF	HARD PIPE INSULATION	O&M
0611	GENERAL PURPOSE	611-04-01	4-3-90	WALLS	NONE DETECTED	Y	30000.	SF	COTTONY INSULATION	N/A
0611	GENERAL PURPOSE	611-04-02	4-3-90	WALLS	NONE DETECTED	Y	30000.	SF	COTTONY INSULATION	N/A
0611	GENERAL PURPOSE	611-04-03	4-3-90	WALLS	NONE DETECTED	Y	30000.	SF	COTTONY INSULATION	N/A
0611	GENERAL PURPOSE	611-05-01	4-3-90	BREAK ROOM	NONE DETECTED	Y	500.	SF	2X4 CEILING TILE	N/A
0611	GENERAL PURPOSE	611-05-02	4-3-90	BREAK ROOM	NONE DETECTED	Y	500.	SF	2X4 CEILING TILE	N/A
0611	GENERAL PURPOSE	611-05-03	4-3-90	BREAK ROOM	NONE DETECTED	Y	500.	SF	2X4 CEILING TILE	N/A
0611	GENERAL PURPOSE	611-06-01	4-3-90	SHOP	NONE DETECTED	Y	200.	EA	PIPE JOINT INSUL.	N/A
0611	GENERAL PURPOSE	611-06-02	4-3-90	SHOP	NONE DETECTED	Y	200.	EA	PIPE JOINT INSUL.	N/A
0611	GENERAL PURPOSE	611-06-03	4-3-90	SHOP	NONE DETECTED	Y	200.	EA	PIPE JOINT INSUL.	N/A
0611	GENERAL PURPOSE	611-07-01	4-3-90	EXTERIOR	25% CHRY	N	13000.	SF	TRANSITE SIDING .	O&M
0611	GENERAL PURPOSE	611-07-02	4-3-90	EXTERIOR	25% CHRY	N	13000.	SF	TRANSITE SIDING .	O&M
0611	GENERAL PURPOSE	611-07-03	4-3-90	EXTERIOR	25% CHRY	N	13000.	SF	TRANSITE SIDING .	O&M
0611	GENERAL PURPOSE	611-08-01	4-3-90	OFFICE	NONE DETECTED	Y	600.	SF	SHEETROCK & MUD	O&M
0611	GENERAL PURPOSE	611-08-02	4-3-90	OFFICE	NONE DETECTED	Y	600.	SF	SHEETROCK & MUD	O&M
0611	GENERAL PURPOSE	611-08-03	4-3-90	OFFICE	2% CH (MUD)	Y	600.	SF	SHEETROCK & MUD	O&M

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0611	GENERAL PURPOSE	611-09-01	4-3-90	OFFICE	NONE DETECTED	N	200.	LF	COVEBASE & MASTIC	N/A
0611	GENERAL PURPOSE	611-09-02	4-3-90	OFFICE	NONE DETECTED	N	200.	LF	COVEBASE & MASTIC	N/A
0611	GENERAL PURPOSE	611-09-03	4-3-90	OFFICE	NONE DETECTED	N	200.	LF	COVEBASE & MASTIC	N/A
0612	REB SH & FAC	612-01-01	4-3-90	BREAKROOM	25% CHRY	N	250.	SF	LINOLEUM	O&M
0612	REB SH & FAC	612-01-02	4-3-90	BREAKROOM	30% CHRY	N	250.	SF	LINOLEUM	O&M
0612	REB SH & FAC	612-01-03	4-3-90	BREAKROOM	30% CHRY	N	250.	SF	LINOLEUM	O&M
0612	REB SH & FAC	612-02-01	4-3-90	OFFICE	2% CHRY	N	50.	SF	12X12 FLOOR TILE	O&M
0612	REB SH & FAC	612-02-02	4-3-90	OFFICE	4% CHRY	N	50.	SF	12X12 FLOOR TILE	O&M
0612	REB SH & FAC	612-03-01	4-3-90	OFFICE	10% CHRY	N	40.	SF	9X9 FLOOR TILE	O&M
0612	REB SH & FAC	612-03-02	4-3-90	OFFICE	5% CHRY	N	40.	SF	9X9 FLOOR TILE	O&M
0612	REB SH & FAC	612-04-01	4-3-90	OFFICE	NONE DETECTED	Y	50.	SF	2X4 CEILING TILE	N/A
0612	REB SH & FAC	612-04-02	4-3-90	OFFICE	NONE DETECTED	Y	50.	SF	2X4 CEILING TILE	N/A
0612	REB SH & FAC	612-04-03	4-3-90	OFFICE	NONE DETECTED	Y	50.	SF	2X4 CEILING TILE	N/A
0612	REB SH & FAC	612-05-01	4-3-90	OFFICE	NONE DETECTED	Y	3000.	SF	GYPSUM BOARD & MUD	N/A
0612	REB SH & FAC	612-05-02	4-3-90	OFFICE	NONE DETECTED	Y	3000.	SF	GYPSUM BOARD & MUD	N/A
0612	REB SH & FAC	612-05-03	4-3-90	OFFICE	NONE DETECTED	Y	3000.	SF	GYPSUM BOARD & MUD	N/A
0612	REB SH & FAC	612-06-01	4-3-90	WINDOWS	NONE DETECTED	Y	15.	EA	WINDOW PUTTY	N/A
0612	REB SH & FAC	612-06-02	4-3-90	WINDOWS	NONE DETECTED	Y	15.	EA	WINDOW PUTTY	N/A
0612	REB SH & FAC	612-06-03	4-3-90	WINDOWS	NONE DETECTED	Y	15.	EA	WINDOW PUTTY	N/A
0613	REB SH & FAC	613-01-01	4-3-90	STORAGE	3% CHRY	N	600.	SF	12X12 FLOOR TILE	O&M
0613	REB SH & FAC	613-01-02	4-3-90	STORAGE	5% CHRY	N	600.	SF	12X12 FLOOR TILE	O&M
0613	REB SH & FAC	613-01-03	4-3-90	STORAGE	NONE DETECTED	N	600.	SF	12X12 FLOOR TILE	O&M
0613	REB SH & FAC	613-02-01	4-3-90	LUNCH ROOM	NONE DETECTED	N	600.	SF	12X12 FLOOR TILE	N/A
0613	REB SH & FAC	613-02-02	4-3-90	LUNCH ROOM	NONE DETECTED	N	600.	SF	12X12 FLOOR TILE	N/A
0613	REB SH & FAC	613-03-01	4-3-90	LUNCH ROOM	NONE DETECTED	N	300.	SF	TEXTURED PAINT	N/A
0613	REB SH & FAC	613-03-02	4-3-90	LUNCH ROOM	NONE DETECTED	N	300.	SF	TEXTURED PAINT	N/A
0613	REB SH & FAC	613-03-03	4-3-90	LUNCH ROOM	TRACE CHRY	N	300.	SF	TEXTURED PAINT	N/A
0614	GENERAL ADMIN	614-01-01	4-3-90	OFFICES	NONE DETECTED	Y	1500.	SF	CEILING TILE	N/A
0614	GENERAL ADMIN	614-01-02	4-3-90	OFFICES	NONE DETECTED	Y	1500.	SF	CEILING TILE	N/A
0614	GENERAL ADMIN	614-01-03	4-3-90	OFFICES	NONE DETECTED	Y	1500.	SF	CEILING TILE	N/A
0614	GENERAL ADMIN	614-02-01	4-3-90	LADIES RESTROOM	5% TREM	N	60.	SF	12X12 FLOOR TILE	O&M
0614	GENERAL ADMIN	614-03-01	4-3-90	ENTRANCE/OFFICES	10% CHRY	N	3200.	SF	9X9 FLOOR TILE	O&M
0614	GENERAL ADMIN	614-04-01	4-3-90	MENS RESTROOM	5% CHRY	N	60.	SF	12X12 FLOOR TILE	O&M
0614	GENERAL ADMIN	614-05-01	4-3-90	OFFICES	NONE DETECTED	Y	4800.	SF	2X4 CEILING TILE	N/A
0614	GENERAL ADMIN	614-05-02	4-3-90	OFFICES	NONE DETECTED	Y	4800.	SF	2X4 CEILING TILE	N/A
0614	GENERAL ADMIN	614-05-03	4-3-90	OFFICES	NONE DETECTED	Y	4800.	SF	2X4 CEILING TILE	N/A

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0614	GENERAL ADMIN	614-06-01	4-3-90	OFFICES	3% CHRY	N	120.	SF	12X12 FLOOR TILE	O&M
0614	GENERAL ADMIN	614-07-01	4-3-90	EXTERIOR	35% CHRY	N	8000.	SF	TRANSITE SIDING	O&M
0614	GENERAL ADMIN	614-07-02	4-3-90	EXTERIOR	35% CHRY	N	8000.	SF	TRANSITE SIDING	O&M
0614	GENERAL ADMIN	614-07-03	4-3-90	EXTERIOR	35% CHRY	N	8000.	SF	TRANSITE SIDING	O&M
0614	GENERAL ADMIN	614-08-01	4-3-90	THROUGHOUT	NONE DETECTED	Y	1000.	SF	SHEETROCK & MUD	N/A
0614	GENERAL ADMIN	614-08-02	4-3-90	THROUGHOUT	NONE DETECTED	Y	1000.	SF	SHEETROCK & MUD	N/A
0614	GENERAL ADMIN	614-08-03	4-3-90	THROUGHOUT	NONE DETECTED	Y	1000.	SF	SHEETROCK & MUD	N/A
0614	GENERAL ADMIN	614-09-01	4-3-90	OFFICES	NONE DETECTED	N	300.	LF	COVEBASE & MUD	N/A
0614	GENERAL ADMIN	614-09-02	4-3-90	OFFICES	NONE DETECTED	N	300.	LF	COVEBASE & MUD	N/A
0614	GENERAL ADMIN	614-09-03	4-3-90	OFFICES	NONE DETECTED	N	300.	LF	COVEBASE & MUD	N/A
0615	VEH C/REB DEP	615-01-01	4-3-90	SHOP AREA	NONE DETECTED	Y	30.	EA	PIPE JOINT INSUL.	N/A
0615	VEH C/REB DEP	615-01-02	4-3-90	SHOP AREA	NONE DETECTED	Y	30.	EA	PIPE JOINT INSUL.	N/A
0615	VEH C/REB DEP	615-01-03	4-3-90	SHOP AREA	NONE DETECTED	Y	30.	EA	PIPE JOINT INSUL.	N/A
0615	VEH C/REB DEP	615-02-01	4-3-90	SHOP AREA	10% CHRY	Y	50.	EA	2"&4" PIPE JOINT INSUL.	O&M
0615	VEH C/REB DEP	615-02-02	4-3-90	SHOP AREA	NONE DETECTED	Y	50.	EA	2"&4" PIPE JOINT INSUL.	O&M
0615	VEH C/REB DEP	615-02-03	4-3-90	SHOP AREA	NONE DETECTED	Y	50.	EA	2"&4" PIPE JOINT INSUL.	O&M
0615	VEH C/REB DEP	615-03-01	4-3-90	OFFICE AREA	NONE DETECTED	N	120.	SF	12X12 FLOOR TILE	N/A
0615	VEH C/REB DEP	615-03-02	4-3-90	OFFICE AREA	NONE DETECTED	N	120.	SF	12X12 FLOOR TILE	N/A
0615	VEH C/REB DEP	615-03-03	4-3-90	OFFICE AREA	NONE DETECTED	N	120.	SF	12X12 FLOOR TILE	N/A
0615	VEH C/REB DEP	615-04-01	4-3-90	OFFICE AREA	NONE DETECTED	Y	1500.	SF	SHEETROCK & MUD	N/A
0615	VEH C/REB DEP	615-04-02	4-3-90	OFFICE AREA	NONE DETECTED	Y	1500.	SF	SHEETROCK & MUD	N/A
0615	VEH C/REB DEP	615-04-03	4-3-90	OFFICE AREA	NONE DETECTED	Y	1500.	SF	SHEETROCK & MUD	N/A
0615	VEH C/REB DEP	615-05-01	4-3-90	OFFICE AREA	NONE DETECTED	N	50.	LF	COVEBASE & MASTIC	N/A
0615	VEH C/REB DEP	615-05-02	4-3-90	OFFICE AREA	NONE DETECTED	N	50.	LF	COVEBASE & MASTIC	N/A
0615	VEH C/REB DEP	615-05-03	4-3-90	OFFICE AREA	NONE DETECTED	N	50.	LF	COVEBASE & MASTIC	N/A
0616	GENERAL PURPOSE	616-01-01	4-3-90	SHOP AREA	30% CHRY	N	1500.	SF	LINOLEUM	O&M
0616	GENERAL PURPOSE	616-01-02	4-3-90	SHOP AREA	30% CHRY	N	1500.	SF	LINOLEUM	O&M
0616	GENERAL PURPOSE	616-01-03	4-3-90	CORRIDOR	15% CHRY	N	750.	SF	LINOLEUM	O&M
0616	GENERAL PURPOSE	616-01-03	4-3-90	SHOP AREA	30% CHRY	N	1500.	SF	LINOLEUM	O&M
0616	GENERAL PURPOSE	616-01-03	4-3-90	CORRIDOR	15% CHRY	N	750.	SF	LINOLEUM	O&M
0616	GENERAL PURPOSE	616-02-01	4-3-90	CORRIDOR	15% CHRY	N	750.	SF	LINOLEUM	O&M
0616	GENERAL PURPOSE	616-02-02	4-3-90	CORRIDOR	15% CHRY	N	750.	SF	LINOLEUM	O&M
0616	GENERAL PURPOSE	616-03-01	4-3-90	BATHROOM	15% CHRY	N	300.	SF	FLOOR TILE	O&M
0616	GENERAL PURPOSE	616-03-02	4-3-90	BATHROOM	15% CHRY	N	300.	SF	FLOOR TILE	O&M
0616	GENERAL PURPOSE	616-04-01	4-3-90	ATTIC	NONE DETECTED	Y	3200.	SF	BLOWN IN INSULATION	N/A
0616	GENERAL PURPOSE	616-04-02	4-3-90	ATTIC	NONE DETECTED	Y	3200.	SF	BLOWN IN INSULATION	N/A

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0616	GENERAL PURPOSE	616-04-03	4-3-90	ATTIC	NONE DETECTED	Y	3200.	SF	BLOWN IN INSULATION	N/A
0616	GENERAL PURPOSE	616-05-01	4-3-90	OFFICE	NONE DETECTED	N	750.	SF	LINOLEUM	N/A
0616	GENERAL PURPOSE	616-05-02	4-3-90	OFFICE	NONE DETECTED	N	750.	SF	LINOLEUM	N/A
0616	GENERAL PURPOSE	616-05-03	4-3-90	OFFICE	NONE DETECTED	N	750.	SF	LINOLEUM	N/A
0616	GENERAL PURPOSE	616-06-01	4-3-90	EXTERIOR	35% CHRY	N	2500.	SF	TRANSITE SIDING	O&M
0616	GENERAL PURPOSE	616-06-02	4-3-90	EXTERIOR	35% CHRY	N	2500.	SF	TRANSITE SIDING	O&M
0616	GENERAL PURPOSE	616-06-03	4-3-90	EXTERIOR	35% CHRY	N	2500.	SF	TRANSITE SIDING	O&M
0616	GENERAL PURPOSE	616-07-01	4-3-90	THROUGHOUT	NONE DETECTED	Y	5000.	SF	GYPSUM BOARD & MUD	N/A
0616	GENERAL PURPOSE	616-07-02	4-3-90	THROUGHOUT	NONE DETECTED	Y	5000.	SF	GYPSUM BOARD & MUD	N/A
0616	GENERAL PURPOSE	616-07-03	4-3-90	THROUGHOUT	NONE DETECTED	Y	5000.	SF	GYPSUM BOARD & MUD	N/A
0616	GENERAL PURPOSE	616-08-01	4-3-90	OFFICE	NONE DETECTED	N	100.	LF	COVEBASE & MUD	N/A
0616	GENERAL PURPOSE	616-08-02	4-3-90	OFFICE	NONE DETECTED	N	100.	LF	COVEBASE & MUD	N/A
0616	GENERAL PURPOSE	616-08-03	4-3-90	OFFICE	NONE DETECTED	N	100.	LF	COVEBASE & MUD	N/A
0617	ADMIN GEN PURPO	617-01-01	04-11-90	OFFICE	N.D.	Y	8500.	SF	FIBERBOARD	N/A
0617	ADMIN GEN PURPO	617-02-01	04-11-90	OFFICE	N.D.	Y	3000.	SF	2 X 4 CEILING TILE	N/A
0617	ADMIN GEN PURPO	617-02-02	04-11-90	OFFICE	N.D.	Y	3000.	SF	2 X 4 CEILING TILE	N/A
0617	ADMIN GEN PURPO	617-02-03	04-11-90	OFFICE	N.D.	Y	3000.	SF	2 X 4 CEILING TILE	N/A
0617	ADMIN GEN PURPO	617-03-01	04-11-90	MENS BATHROOM	N.D.	Y	2.	SF	DEBRIS	N/A
0617	ADMIN GEN PURPO	617-04-01	04-11-90	MENS BATHROOM	N.D.	Y	20.	EA	PIPE FITTING	N/A
0617	ADMIN GEN PURPO	617-04-02	04-11-90	MENS BATHROOM	N.D.	Y	20.	EA	PIPE FITTING	N/A
0617	ADMIN GEN PURPO	617-04-03	04-11-90	MENS BATHROOM	N.D.	Y	20.	EA	PIPE FITTING	N/A
0617	ADMIN GEN PURPO	617-05-01	04-11-90	ATTIC	N.D.	Y	3000.	SF	B.I. INSULATION	N/A
0617	ADMIN GEN PURPO	617-05-02	04-11-90	ATTIC	N.D.	Y	3000.	SF	B.I. INSULATION	N/A
0617	ADMIN GEN PURPO	617-05-03	04-11-90	ATTIC	N.D.	Y	3000.	SF	B.I. INSULATION	N/A
0617	ADMIN GEN PURPO	617-06-01	04-11-90	ATTIC AREA	30% CH 20% AM	Y	200.	LF	PIPE INSULATION	O&M
0617	ADMIN GEN PURPO	617-06-02	04-11-90	ATTIC AREA	30% CH 20% AM	Y	200.	LF	PIPE INSULATION	O&M
0617	ADMIN GEN PURPO	617-06-03	04-11-90	ATTIC AREA	30% CH 30% AM	Y	200.	LF	PIPE INSULATION	O&M
0617	ADMIN GEN PURPO	617-07-01	04-11-90	CORRIDOR	10% CH	N	2500.	SF	BROWN 9 X 9 VAT	O&M
0617	ADMIN GEN PURPO	617-07-02	04-11-90	CORRIDOR	10% CH	N	2500.	SF	BROWN 9 X 9 VAT	O&M
0617	ADMIN GEN PURPO	617-07-03	04-11-90	CORRIDOR	8% CH	N	2500.	SF	BROWN 9 X 9 VAT	O&M
0617	ADMIN GEN PURPO	617-08-01	04-11-90	CORRIDOR	N.D.	N	25.	SF	RED 9 X 9 VAT	N/A
0617	ADMIN GEN PURPO	617-08-02	04-11-90	CORRIDOR	N.D.	N	25.	SF	RED 9 X 9 VAT	N/A
0617	ADMIN GEN PURPO	617-09-01	04-11-90	OFFICE IN SHOP	10% CH	N	200.	SF	TAN 9 X 9 VAT	O&M
0617	ADMIN GEN PURPO	617-09-02	04-11-90	OFFICE IN SHOP	10% CH	N	200.	SF	TAN 9 X 9 VAT	O&M
0617	ADMIN GEN PURPO	617-10-01	04-01-90	SHOP OFFICE	N.D.	N	800.	SF	BEIGE 12 X 12	N/A
0617	ADMIN GEN PURPO	617-10-02	04-01-90	SHOP OFFICE	N.D.	N	800.	SF	BEIGE 12 X 12	N/A

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BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
0617	ADMIN GEN PURPO	617-10-03	04-01-90	SHOP OFFICE	N.D.	N	800.	SF	BEIGE 12 X 12	N/A
0617	ADMIN GEN PURPO	617-11-01	11-28-90	SHOP	N.D.	N	10000.	SF	GYP AND MUD	N/A
0617	ADMIN GEN PURPO	617-11-02	11-28-90	SHOP	N.D.	N	10000.	SF	GYP AND MUD	N/A
0617	ADMIN GEN PURPO	617-12-01	11-28-90	EXTERIOR	35% CH	N	5000.	SF	CAB SIDING	O&M
0617	ADMIN GEN PURPO	617-12-02	11-28-90	EXTERIOR	35% CH	N	5000.	SF	CAB SIDING	O&M
0618	LUNCH ROOM	618-01-01	11-28-90	SOUTH END	60% CH 10% AM	Y	80.	LF	PIPE INSULATION	REPAIR/O&M
0618	LUNCH ROOM	618-01-02	11-28-90	SOUTH END	60% CH 10% AM	Y	80.	LF	PIPE INSULATION	REPAIR/O&M
0618	LUNCH ROOM	618-01-03	11-28-90	SOUTH END	35% CH 5% AM	Y	80.	LF	PIPE INSULATION	REPAIR/O&M
0618	LUNCH ROOM	618-02-01	11-28-90	THROUGHOUT	N.D.	Y	6500.	SF	BLOWN IN INSULATION	N/A
0618	LUNCH ROOM	618-02-02	11-28-90	THROUGHOUT	N.D.	Y	6500.	SF	BLOWN IN INSULATION	N/A
0618	LUNCH ROOM	618-02-03	11-28-90	THROUGHOUT	N.D.	Y	6500.	SF	BLOWN IN INSULATION	N/A
0618	LUNCH ROOM	618-03-01	11-28-90	SOUTH END	N.D.	N	4000.	SF	2 X 4 CEILING TILE	N/A
0618	LUNCH ROOM	618-03-02	11-28-90	SOUTH END	N.D.	N	4000.	SF	2 X 4 CEILING TILE	N/A
0618	LUNCH ROOM	618-03-03	11-28-90	SUOTHEND	N.D.	N	4000.	SF	2 X 4 CEILING TILE	N/A
0618	LUNCH ROOM	618-04-01	11-28-90	THROUGHOUT	N.D.	N	8000.	SF	SHEET ROCK AND MUD	N/A
0618	LUNCH ROOM	618-04-02	11-28-90	THROUGHOUT	N.D.	N	8000.	SF	SHEET ROCK AND MUD	N/A
0618	LUNCH ROOM	618-04-03	11-28-90	THROUGHOUT	N.D.	N	8000.	SF	SHEET ROCK AND MUD	N/A
0618	LUNCH ROOM	618-05-01	11-28-90	BLDG. EXTERIOR	ASSUMED POSITIVE	N	4000.	SF	TRANSITE SIDING	O&M
0619	REBD SH & FAC	619-01-01	04-04-90	SOUTH WING	N.D.	Y	280.	EA	PIPE HANGER	N/A
0619	REBD SH & FAC	619-01-02	04-04-90	SOUTH WING	N.D.	Y	280.	EA	PIPE HANGER	N/A
0619	REBD SH & FAC	619-01-03	04-04-90	SOUTH WING	N.D.	Y	280.	EA	PIPE HANGER	N/A
0619	REBD SH & FAC	619-02-01	04-04-90	PORTABLE OFFICE	N.D.	N	450.	SF	LINOLEUM	N/A
0619	REBD SH & FAC	619-02-02	04-04-90	PORTABLE OFFICE	N.D.	N	450.	SF	LINOLEUM	N/A
0619	REBD SH & FAC	619-02-03	04-04-90	PORTABLE OFFICE	N.D.	N	450.	SF	LINOLEUM	N/A
0619	REBD SH & FAC	619-03-01	04-04-90	OFFICE	N.D.	N	300.	SF	12 X 12 WHITE FLOOR TILE	N/A
0619	REBD SH & FAC	619-03-02	04-04-90	OFFICE	N.D.	N	300.	SF	12 X 12 WHITE FLOOR TILE	N/A
0619	REBD SH & FAC	619-03-03	04-04-90	OFFICE	N.D.	N	300.	SF	12 X 12 WHITE FLOOR TILE	N/A
0619	REBD SH & FAC	619-04-01	04-04-90	OFFICE	N.D.	Y	300.	SF	2 X 4 CEILING TILE	N/A
0619	REBD SH & FAC	619-04-02	04-04-90	OFFICE	N.D.	Y	300.	SF	2 X 4 CEILING TILE	N/A
0619	REBD SH & FAC	619-04-03	04-04-90	OFFICE	N.D.	Y	300.	SF	2 X 4 CEILING TILE	N/A
0619	REBD SH & FAC	619-05-01	04-04-90	SHOP	N.D.	N	6.	EA	VIBRATION DAMPER	N/A
0619	REBD SH & FAC	619-05-02	04-04-90	SHOP	N.D.	N	6.	EA	VIBRATION DAMPER	N/A
0619	REBD SH & FAC	619-05-03	04-04-90	SHOP	N.D.	N	6.	EA	VIBRATION DAMPER	N/A
0619	REBD SH & FAC	619-06-01	11-27-90	OFFICE	N.D.	N	500.	LF	COVE BASE	N/A
0619	REBD SH & FAC	619-06-02	11-27-90	OFFICE	N.D.	N	500.	LF	COVE BASE	N/A
0619	REBD SH & FAC	619-06-03	11-27-90	OFFICE	N.D.	N	500.	LF	COVE BASE	N/A

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0619	REBD SH & FAC	619-07-01	11-27-90	MENS ROOM	N.D.	Y	1000.	SF	GYP BOARD AND MUD	N/A
0619	REBD SH & FAC	619-07-02	11-27-90	MENS ROOM	N.D.	Y	1000.	SF	GYP BOARD AND MUD	N/A
0619	REBD SH & FAC	619-07-03	11-27-90	MENS ROOM	N.D.	Y	1000.	SF	GYP BOARD AND MUD	N/A
0620	SHIP & REC	620-01-01	04-04-90	OPEN SHOP	N.D.	Y	30.	LF	OVEN GASKET	N/A
0620	SHIP & REC	620-01-02	04-04-90	OPEN SHOP	N.D.	Y	30.	LF	OVEN GASKET	N/A
0620	SHIP & REC	620-02-01	04-04-90	BREAK ROOM	15% CH	N	400.	SF	BEIGE 9 X 9 FLOOR TILE	O&M
0620	SHIP & REC	620-02-02	04-04-90	BREAK ROOM	15% CH	N	400.	SF	BEIGE 9 X 9 FLOOR TILE	O&M
0620	SHIP & REC	620-02-03	04-04-90	BREAK ROOM	15% CH	N	400.	SF	BEIGE 9 X 9 FLOOR TILE	O&M
0620	SHIP & REC	620-03-01	04-04-90	OFFICES	5% TR	N	300.	SF	BEIGE 12 X 12 FLOOR TILE	O&M
0620	SHIP & REC	620-03-02	04-04-90	OFFICES	5% TR	N	300.	SF	BEIGE 12 X 12 FLOOR TILE	O&M
0620	SHIP & REC	620-03-03	04-04-90	OFFICES	5% TR	N	300.	SF	BEIGE 12 X 12 FLOOR TILE	O&M
0620	SHIP & REC	620-04-01	04-04-90	BLDG. EXTERIOR	25% CH	N	15000.	SF	TRANSITE SIDING	O&M
0620	SHIP & REC	620-04-02	04-04-90	BLDG. EXTERIOR	25% CH	N	15000.	SF	TRANSITE SIDING	O&M
0620	SHIP & REC	620-04-03	04-04-90	BLDG. EXTERIOR	25% CH	N	15000.	SF	TRANSITE SIDING	O&M
0620	SHIP & REC	620-05-01	11-27-90	BREAK & OFFICES	N.D.	N	800.	SF	SHEET ROCK AND MUD	N/A
0620	SHIP & REC	620-05-02	11-27-90	BREAK & OFFICES	N.D.	N	800.	SF	SHEET ROCK AND MUD	N/A
0620	SHIP & REC	620-05-03	11-27-90	BREAK & OFFICES	N.D.	N	800.	SF	SHEET ROCK AND MUD	N/A
0620	SHIP & REC	620-06-01	11-27-90	ENTRY TO LAVATORY	N.D.	N	15.	LF	COVE BASE	N/A
0620	SHIP & REC	620-06-02	11-27-90	ENTRY TO LAVATORY	N.D.	N	15.	LF	COVE BASE	N/A
0620	SHIP & REC	620-06-03	11-27-90	ENTRY TO LAVATORY	N.D.	N	15.	LF	COVE BASE	N/A
0620	SHIP & REC	620-07-01	11-27-90	NORTH OFFICES	N.D.	Y	300.	SF	2 X 4 CEILING TILE	N/A
0620	SHIP & REC	620-07-02	11-27-90	NORTH OFFICES	N.D.	Y	300.	SF	2 X 4 CEILING TILE	N/A
0620	SHIP & REC	620-07-03	11-27-90	NORTH OFFICES	N.D.	Y	300.	SF	2 X 4 CEILING TILE	N/A
0621	GEN PURP WHSE	621-01-01	04-04-90	MAIN BAY	10% CH	Y	80.	EA	PIPE JOINTS	O&M
0621	GEN PURP WHSE	621-01-02	04-04-90	MAIN BAY	10% CH	Y	80.	EA	PIPE JOINTS	O&M
0621	GEN PURP WHSE	621-01-03	04-04-90	MAIN BAY	15% CH	Y	80.	EA	PIPE JOINTS	O&M
0621	GEN PURP WHSE	621-02-01	04-04-90	OFFICES/BREAK ROOM	10% CH	N	800.	SF	9 X 9 FLOOR TILE	O&M
0621	GEN PURP WHSE	621-02-02	04-04-90	OFFICES/BREAK ROOM	10% CH	N	800.	SF	9 X 9 FLOOR TILE	O&M
0621	GEN PURP WHSE	621-03-01	04-04-90		N.D.	N	200.	SF	12 X 12 FLOOR TILE	N/A
0621	GEN PURP WHSE	621-04-01	04-04-90	OFFICES & BREAK RM	N.D.	Y	800.	SF	2 X 4 CEILING TILE	N/A
0621	GEN PURP WHSE	621-04-02	04-04-90	OFFICES & BREAK RM	N.D.	Y	800.	SF	2 X 4 CEILING TILE	N/A
0622	CREDIT UNION	622-01-01	04-11-90	HALL	N.D.	Y	10.	EA	MUDDED JOINTS	N/A
0622	CREDIT UNION	622-01-02	04-11-90	HALL	N.D.	Y	10.	EA	MUDDED JOINTS	N/A
0622	CREDIT UNION	622-01-03	04-11-90	HALL	N.D.	Y	10.	EA	MUDDED JOINTS	N/A
0622	CREDIT UNION	622-02-01	11-27-90	THROUGHOUT	N.D.	Y	2500.	SF	SHEET ROCK	N/A
0622	CREDIT UNION	622-02-02	11-27-90	THROUGHOUT	N.D.	Y	2500.	SF	SHEET ROCK	N/A

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0622	CREDIT UNION	622-02-03	11-27-90	THROUGHOUT	N.D.	Y	2500.	SF	SHEET ROCK	N/A
0622	CREDIT UNION	622-03-01	11-27-90	THROUGHOUT	N.D.	N	1000.	LF	COVE BASE AND MASTIC	N/A
0622	CREDIT UNION	622-03-02	11-27-90	THROUGHOUT	N.D.	N	1000.	LF	COVE BASE AND MASTIC	N/A
0622	CREDIT UNION	622-03-03	11-27-90	THROUGHOUT	N.D.	N	1000.	LF	COVE BASE AND MASTIC	N/A
0627	CHANGE HOUSE	627-01-01	04-11-90	FURNACE	10% CH 2% AM	Y	30.	EA	PIPE JOINTS	O&M
0627	CHANGE HOUSE	627-01-02	04-11-90	FURNACE	3% CH 1% AM	Y	30.	EA	PIPE JOINTS	O&M
0627	CHANGE HOUSE	627-01-03	04-11-90	FURNACE	2% CH 1% AM	Y	30.	EA	PIPE JOINTS	O&M
0627	CHANGE HOUSE	627-02-01	04-11-90	FURNACE	N.D.	Y	4000.	SF	SPRAY ON INSULATION	N/A
0627	CHANGE HOUSE	627-02-02	04-11-90	FURNACE	N.D.	Y	4000.	SF	SPRAY ON INSULATION	N/A
0627	CHANGE HOUSE	627-02-03	04-11-90	FURNACE	N.D.	Y	4000.	SF	SPRAY ON INSULATION	N/A
0627	CHANGE HOUSE	627-03-01	04-11-90	BREAK ROOM	25% CH	N	900.	SF	BROWN LINOLEUM	O&M
0627	CHANGE HOUSE	627-03-02	04-11-90	BREAK ROOM	30% CH	N	900.	SF	BROWN LINOLEUM	O&M
0627	CHANGE HOUSE	627-03-03	04-11-90	BREAK ROOM	35% CH	N	900.	SF	BROWN LINOLEUM	O&M
0627	CHANGE HOUSE	627-04-01	04-11-90	THROUGHOUT	N.D.	Y	4500.	SF	SHEET ROCK AND MUD	N/A
0627	CHANGE HOUSE	627-04-02	04-11-90	THROUGHOUT	N.D.	Y	4500.	SF	SHEET ROCK AND MUD	N/A
0627	CHANGE HOUSE	627-04-03	04-11-90	THROUGHOUT	N.D.	Y	4500.	SF	SHEET ROCK AND MUD	N/A
0627	CHANGE HOUSE	627-05-01	04-11-90	THROUGHOUT	N.D.	N	600.	LF	COVE BASE AND MASTIC	N/A
0627	CHANGE HOUSE	627-05-02	04-11-90	THROUGHOUT	N.D.	N	600.	LF	COVE BASE AND MASTIC	N/A
0627	CHANGE HOUSE	627-05-03	04-11-90	THROUGHOUT	N.D.	N	600.	LF	COVE BASE AND MASTIC	N/A
0629	GAS STATION	629-01-01	11-27-90	BLDG EXTERIOR	30% CH	N	80.		CAS SIDING & TAR PAPER	REPAIR/O&M
0629	GAS STATION	629-01-02	11-27-90	BLDG EXTERIOR	30% CH	N	80.		CAB SIDING & TAR PAPER	REPAIR/O&M
0629	GAS STATION	629-01-03	11-27-90	BLDG EXTERIOR	30% CH	N	80.		CAB SIDING & TAR PAPER	REPAIR/O&M
0630	GEN PURP WAREHO	630-01-01	04-04-90	OFFICES	2% TR	N	3000.	SF	TAN 12 X 12 FLOOR TILE	O&M
0630	GEN PURP WAREHO	630-01-02	04-04-90	OFFICES	2% TR	N	3000.	SF	TAN 12 X 12 FLOOR TILE	O&M
0630	GEN PURP WAREHO	630-01-03	04-04-90	OFFICES	3% TR	N	3000.	SF	TAN 12 X 12 FLOOR TILE	O&M
0630	GEN PURP WAREHO	630-02-01	04-04-90	WAREHOUSE	5% CH	Y	100.	EA	PIPE JOINT	O&M
0630	GEN PURP WAREHO	630-02-02	04-04-90	WAREHOUSE	5% CH	Y	100.	EA	PIPE JOINT	O&M
0630	GEN PURP WAREHO	630-02-03	04-04-90	WAREHOUSE	5% CH	Y	100.	EA	PIPE JOINT	O&M
0630	GEN PURP WAREHO	630-03-01	04-04-90	WAREHOUSE BREAKROOM	15% CH	N	200.	SF	TAN 9 X 9 FLOOR TILE	O&M
0630	GEN PURP WAREHO	630-03-02	04-04-90	WAREHOUSE BREAKROOM	15% CH	N	200.	SF	TAN 9 X 9 FLOOR TILE	O&M
0630	GEN PURP WAREHO	630-03-03	04-04-90	WAREHOUSE BREAKROOM	15% CH	N	200.	SF	TAN 9 X 9 FLOOR TILE	O&M
0630	GEN PURP WAREHO	630-03-04	04-04-90	WAREHOUSE BREAKROOM	10% CH	N	200.	SF	TAN 9 X 9 FLOOR TILE	O&M
0630	GEN PURP WAREHO	630-03-05	04-04-90	WAREHOUSE BREAKROOM	2% CH	N	200.	SF	TAN 9 X 9 FLOOR TILE	O&M
0630	GEN PURP WAREHO	630-04-01	04-04-90	EXTERIOR	30% CH	N	15000.	SF	TRANSITE/CAB SIDING	O&M
0630	GEN PURP WAREHO	630-04-02	04-04-90	EXTERIOR	30% CH	N	15000.	SF	TRANSITE/CAB SIDING	O&M
0630	GEN PURP WAREHO	630-04-03	04-04-90	EXTERIOR	30% CH	N	15000.	SF	TRANSITE/CAB SIDING	O&M

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0630	GEN PURP WAREHO	630-05-01	11-27-90	THROUGHOUT	N.D.	Y	8000.	SF	SHEET ROCK AND MUD	N/A
0630	GEN PURP WAREHO	630-05-02	11-27-90	THROUGHOUT	N.D.	Y	8000.	SF	SHEET ROCK AND MUD	N/A
0630	GEN PURP WAREHO	630-05-03	11-27-90	THROUGHOUT	N.D.	Y	8000.	SF	SHEET ROCK AND MUD	N/A
0630	GEN PURP WAREHO	630-06-01	11-27-90	OFFICES	N.D.	N	1000.	LF	COVE BASE	N/A
0630	GEN PURP WAREHO	630-06-02	11-27-90	OFFICES	N.D.	N	1000.	LF	COVE BASE	N/A
0630	GEN PURP WAREHO	630-06-03	11-27-90	OFFICES	N.D.	N	1000.	LF	COVE BASE	N/A
0631	SHIPPING & REC	631-01-01	04-09-90	BREAK ROOM	N.D.	N	300.	SF	GOLD & YELLOW LINOLEUM	N/A
0631	SHIPPING & REC	631-01-02	04-09-90	BREAK ROOM	N.D.	N	300.	SF	GOLD & YELLOW LINOLEUM	N/A
0631	SHIPPING & REC	631-01-03	04-09-90	BREAK ROOM	N.D.	N	300.	SF	GOLD & YELLOW LINOLEUM	N/A
0631	SHIPPING & REC	631-02-01	04-09-90	WAREHOUSE	N.D.	N	12000.	SF	SHEET ROCK	N/A
0631	SHIPPING & REC	631-02-02	04-09-90	WAREHOUSE	N.D.	N	12000.	SF	SHEET ROCK	N/A
0631	SHIPPING & REC	631-02-03	04-09-90	WAREHOUSE	N.D.	N	12000.	SF	SHEET ROCK	N/A
0631	SHIPPING & REC	631-03-01	04-09-90	OFFICE	N.D.	Y	40.	SF	2 X 4 CEILING TILE	N/A
0631	SHIPPING & REC	631-03-02	04-09-90	OFFICE	N.D.	Y	40.	SF	2 X 4 CEILING TILE	N/A
0631	SHIPPING & REC	631-03-03	04-09-90	OFFICE	N.D.	Y	40.	SF	2 X 4 CEILING TILE	N/A
0631	SHIPPING & REC	631-04-01	04-09-90	BLDG. EXTERIOR	30% CH	N	14500.	SF	CAB SIDING	O&M
0631	SHIPPING & REC	631-04-02	04-09-90	BLDG. EXTERIOR	30% CH	N	14500.	SF	CAB SIDING	O&M
0631	SHIPPING & REC	631-04-03	04-09-90	BLDG. EXTERIOR	30% CH	N	14500.	SF	CAB SIDING	O&M
0637	VEH C/REB DEP	637-01-01	04-11-90	BOILER ROOM	N.D.	Y	300.		BOILER GASKET	N/A
0637	VEH C/REB DEP	637-01-02	04-11-90	BOILER ROOM	N.D.	Y	300.		BOILER GASKET	N/A
0637	VEH C/REB DEP	637-01-03	04-11-90	BOILER ROOM	N.D.	Y	300.	SF	BOILER GASKET	N/A
0637	VEH C/REB DEP	637-02-01	04-11-90	BOILER ROOM	N.D.	Y	50.	SF	TROWELED ON TANK	N/A
0637	VEH C/REB DEP	637-02-02	04-11-90	BOILER ROOM	N.D.	Y	50.	SF	TROWELED ON TANK	N/A
0637	VEH C/REB DEP	637-02-03	04-11-90	BOILER ROOM	N.D.	Y	50.	SF	TROWELED ON TANK	N/A
0637	VEH C/REB DEP	637-03-01	04-11-90	BOILER ROOM	20% CH	Y	600.	SF	TROWELED ON BOILER INSULA	O&M
0637	VEH C/REB DEP	637-03-02	04-11-90	BOILER ROOM	5% CH	Y	600.	SF	TROWELED ON BOILER INSULA	O&M
0637	VEH C/REB DEP	637-03-03	04-11-90	BOILER ROOM	2% CH	Y	600.	SF	TROWELED ON BOILER INSULA	O&M
0637	VEH C/REB DEP	637-04-01	04-11-90	BOILER ROOM	N.D.	Y	150.	SF	TANK INSULATION	N/A
0637	VEH C/REB DEP	637-04-02	04-11-90	BOILER ROOM	N.D.	Y	150.	SF	TANK INSULATION	N/A
0637	VEH C/REB DEP	637-04-03	04-11-90	BOILER ROOM	N.D.	Y	150.	SF	TANK INSULATION	N/A
0637	VEH C/REB DEP	637-05-01	04-11-90	BOILER ROOM	N.D.	Y	180.	LF	4" STEAM PIPE INSULATION	N/A
0637	VEH C/REB DEP	637-05-02	04-11-90	BOILER ROOM	N.D.	Y	180.	LF	4" STEAM PIPE INSULATION	N/A
0637	VEH C/REB DEP	637-05-03	04-11-90	BOILER ROOM	N.D.	Y	180.	LF	4" STEAM PIPE INSULATION	N/A
0637	VEH C/REB DEP	637-06-01	04-11-90	EXTERIOR	30% CH	N	17000.	SF	CAB SIDING & TAR PAPER	O&M
0637	VEH C/REB DEP	637-06-02	04-11-90	EXTERIOR	25% CH	N	17000.	SF	CAB SIDING & TAR PAPER	O&M
0637	VEH C/REB DEP	637-06-03	04-11-90	EXTERIOR	30% CH	N	17000.	SF	CAB SIDING & TAR PAPER	O&M

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0637	VEH C/REB DEP	637-07-01	04-11-90	OFFICES	N.D.	N	5000.	SF	SHEET ROCK AND MUD	N/A
0637	VEH C/REB DEP	637-07-02	04-11-90	OFFICES	N.D.	N	5000.	SF	SHEET ROCK AND MUD	N/A
0637	VEH C/REB DEP	637-07-03	04-11-90	OFFICES	N.D.	N	5000.	SF	SHEET ROCK AND MUD	N/A
0637	VEH C/REB DEP	637-08-01	04-11-90	OFFICE	N.D.	Y	350.	SF	2 X 4 CEILING TILE	N/A
0637	VEH C/REB DEP	637-08-02	04-11-90	OFFICE	N.D.	Y	350.	SF	2 X 4 CEILING TILE	N/A
0637	VEH C/REB DEP	637-08-03	04-11-90	OFFICE	N.D.	Y	350.	SF	2 X 4 CEILING TILE	N/A
0637	VEH C/REB DEP	637-09-01	11-27-90	UPSTAIRS OFFICE	N.D.	N	100.	LF	COVE BASE & MASTIC	N/A
0637	VEH C/REB DEP	637-09-02	11-27-90	UPSTAIRS OFFICE	N.D.	N	100.	LF	COVE BASE & MASTIC	N/A
0637	VEH C/REB DEP	637-09-03	11-27-90	UPSTAIRS OFFICE	N.D.	N	100.	LF	COVE BASE & MASTIC	N/A
0637	VEH C/REB DEP	637-10-01	11-28-90	STORAGE AREA	N.D.	Y	100.	SF	TANK INSULATION	N/A
0637	VEH C/REB DEP	637-10-02	11-28-90	STORAGE AREA	N.D.	Y	100.	SF	TANK INSULATION	N/A
0637	VEH C/REB DEP	637-10-03	11-28-90	STORAGE AREA	N.D.	Y	100.	SF	TANK INSULATION	N/A
0637	VEH C/REB DEP	637-A01-01	05-09-90	OFFICE	N.D.	N	350.	SF	LINOLEUM	N/A
0637	VEH C/REB DEP	637-A01-02	05-09-90	OFFICE	N.D.	N	350.	SF	LINOLEUM	N/A
0637	VEH C/REB DEP	637-A01-03	05-09-90	OFFICE	N.D.	N	350.	SF	LINOLEUM	N/A
0637	VEH C/REB DEP	637-A02-01	05-09-90	OFFICE	N.D.	Y	350.	SF	CEILING TILE	N/A
0637	VEH C/REB DEP	637-A02-02	05-09-90	OFFICE	N.D.	Y	350.	SF	CEILING TILE	N/A
0637	VEH C/REB DEP	637-A03-01	05-09-90	SHOP	40% CH 30% AM	Y	900.	LF	PIPE INSULATION	O&M
0637	VEH C/REB DEP	637-A03-02	05-09-90	SHOP	N.D.	Y	900.	LF	PIPE INSULATION	O&M
0637	VEH C/REB DEP	637-A03-03	05-09-90	SHOP	N.D.	Y	900.	LF	PIPE INSULATION	O&M
0637	VEH C/REB DEP	637-A04-01	05-09-90	OFFICE	N.D.	N	300.	SF	12 X 12 FLOOR TILE	N/A
0637	VEH C/REB DEP	637-A04-02	05-09-90	OFFICE	N.D.	N	300.	SF	12 X 12 FLOOR TILE	N/A
0637	VEH C/REB DEP	637-A04-03	05-09-90	OFFICE	N.D.	N	300.	SF	12 X 12 FLOOR TILE	N/A
0637	VEH C/REB DEP	637-A05-01	05-09-90	SHOP	N.D.	Y	720.	SF	EXHAUST PIPE INSULATION	N/A
0637	VEH C/REB DEP	637-A05-02	05-09-90	SHOP	N.D.	Y	720.	SF	EXHAUST PIPE INSULATION	N/A
0637	VEH C/REB DEP	637-A05-03	05-09-90	SHOP	N.D.	Y	720.	SF	EXHAUST PIPE INSULATION	N/A
0637	VEH C/REB DEP	637-A06-01	05-09-90	OFFICE	5% CH	N	700.	SF	9 X 9 FLOOR TILE	O&M
0637	VEH C/REB DEP	637-A06-02	05-09-90	OFFICE	5% CH	N	700.	SF	9 X 9 FLOOR TILE	O&M
0637	VEH C/REB DEP	637-A06-03	05-09-90	OFFICE	5% CH	N	700.	SF	9 X 9 FLOOR TILE	O&M
0637	VEH C/REB DEP	637-A07-01	05-10-90	TOOL ROOM	N.D.	Y	5000.	SF	ACOUSTIC PANELS	N/A
0637	VEH C/REB DEP	637-A07-02	05-10 90	TOOL ROOM	N.D.	Y	5000.	SF	ACOUSTIC PANELS	N/A
0637	VEH C/REB DEP	637-A07-03	05-10-90	TOOL ROOM	N.D.	Y	5000.	SF	ACOUSTIC PANELS	N/A
0639	WAREHOUSE	639-01-01	04-11-90	WAREHOUSE	20% CH.	Y	50.	LF	PIPE FITTINGS	REPAIR/O&M
0639	WAREHOUSE	639-01-02	04-11-90	WAREHOUSE	10% CH.	Y	50.	LF	PIPE FITTINGS	REPAIR/O&M
0639	WAREHOUSE	639-01-03	04-11-90	WAREHOUSE	10% CH.	Y	50.	LF	PIPE FITTINGS	REPAIR/O&M
0639	WAREHOUSE	639-02-01	04-11-90	BATHROOMS	3% TREM.	N	1200.	SF	9X9 FLOOR TILE	O&M

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0639	WAREHOUSE	639-02-02	04-11-90	BATHROOMS	5% CHRYS.	N	1200.	SF	9X9 FLOOR TILE	O&M
0639	WAREHOUSE	639-02-03	04-11-90	BATHROOMS	7% CHRYS.	N	1200.	SF	9X9 FLOOR TILE	O&M
0639	WAREHOUSE	639-03-01	04-11-90	EXTERIOR	NONE DETECTED	Y	28000.	SF	FELT	N/A
0639	WAREHOUSE	639-03-02	04-11-90	EXTERIOR	NONE DETECTED	Y	28000.	SF	FELT	N/A
0639	WAREHOUSE	639-03-03	04-11-90	EXTERIOR	NONE DETECTED	Y	28000.	SF	FELT	N/A
0639	WAREHOUSE	639-04-01	04-11-90	OFFICE IN SHOP	2% TREM.	N	400.	SF	VINYL ASBESTOS TILE	O&M
0639	WAREHOUSE	639-04-02	04-11-90	OFFICE IN SHOP	15% CHRY.	N	400.	SF	VINYL ASBESTOS TILE	O&M
0639	WAREHOUSE	639-04-03	04-11-90	OFFICE IN SHOP	15% CHRY.	N	400.	SF	VINYL ASBESTOS TILE	O&M
0639	WAREHOUSE	639-05-01	04-11-90	EXTERIOR	35% CHRYS.	N	14000.	SF	CEMENT ASBESTOS BOARD SID	O&M
0639	WAREHOUSE	639-05-02	04-11-90	EXTERIOR	35% CHRYS.	N	14000.	SF	CEMENT ASBESTOS BOARD SID	O&M
0639	WAREHOUSE	639-05-03	04-11-90	EXTERIOR	35% CHRYS.	N	14000.	SF	CEMENT ASBESTOS BOARD SID	O&M
0639	WAREHOUSE	639-06-01	04-11-90	PERIMITER WALL	NONE DETECTED	Y	13000.	SF	DRYWALL IS NOT MUDDED	N/A
0639	WAREHOUSE	639-06-02	04-11-90	PERIMITER WALL	NONE DETECTED	Y	13000.	SF	DRYWALL IS NOT MUDDED	N/A
0639	WAREHOUSE	639-06-03	04-11-90	PERIMITER WALL	NONE DETECTED	Y	13000.	SF	DRYWALL IS NOT MUDDED	N/A
0639	WAREHOUSE	639-07-01	11-27-90	OFFICES AND TOILETS	NONE DETECTED	N	2000.	LF	COVE BASE	N/A
0639	WAREHOUSE	639-07-02	11-27-90	OFFICES AND TOILETS	NONE DETECTED	N	2000.	LF	COVE BASE	N/A
0639	WAREHOUSE	639-07-03	11-27-90	OFFICES AND TOILETS	NONE DETECTED	N	2000.	LF	COVE BASE	N/A
0647	WAREHOUSE	647-01-01	04-11-90	OFFICE	NONE DETECTED	Y	100.	SF	2X4 CEILING TILE	N/A
0647	WAREHOUSE	647-01-02	04-11-90	OFFICE	NONE DETECTED	Y	100.	SF	2X4 CEILING TILE	N/A
0647	WAREHOUSE	647-01-03	04-11-90	OFFICE	NONE DETECTED	Y	100.	SF	2X4 CEILING TILE	N/A
0647	WAREHOUSE	647-02-01	04-11-90	OFFICE	15% CHRYS.	N	80.	SF	9X9 VINYL ASBESTOS TILE	O&M
0647	WAREHOUSE	647-02-02	04-11-90	OFFICE	15% CHRYS.	N	80.	SF	9X9 VINYL ASBESTOS TILE	O&M
0647	WAREHOUSE	647-02-03	04-11-90	OFFICE	15% CHRYS.	N	80.	SF	9X9 VINYL ASBESTOS TILE	O&M
0647	WAREHOUSE	647-03-01	04-11-90	OFFICE	4% TREM.	N	400.	SF	12X12 FLOOR TILE	O&M
0647	WAREHOUSE	647-03-02	04-11-90	OFFICE	5% TREM.	N	400.	SF	12X12 FLOOR TILE	O&M
0647	WAREHOUSE	647-03-03	04-11-90	OFFICE	5% CHRYS.	N	400.	SF	12X12 FLOOR TILE	O&M
0647	WAREHOUSE	647-03-04	04-11-90	OFFICE	2% CHRYS.	N	400.	SF	12X12 FLOOR TILE	O&M
0647	WAREHOUSE	647-04-01	04-11-90	BREAK AREA	25% CHRYS.	N	200.	SF	GOLD LINOLEUM	O&M
0647	WAREHOUSE	647-04-02	04-11-90	BREAK AREA	30% CHRYS.	N	200.	SF	GOLD LINOLEUM	O&M
0647	WAREHOUSE	647-04-03	04-11-90	BREAK AREA	30% CHRYS.	N	200.	SF	GOLD LINOLEUM	O&M
0647	WAREHOUSE	647-05-01	04-11-90	BREAK AREA	NONE DETECTED	N	50.	SF	BROWN LINOLEUM	N/A
0647	WAREHOUSE	647-05-02	04-11-90	BREAK AREA	NONE DETECTED	N	50.	SF	BROWN LINOLEUM	N/A
0647	WAREHOUSE	647-05-03	04-11-90	BREAK AREA	35% CHRYS.	N	50.	SF	BROWN LINOLEUM	N/A
0647	WAREHOUSE	647-06-01	04-11-90	OFFICE	NONE DETECTED	N	200.	SF	12X12 FLOOR TILE	N/A
0647	WAREHOUSE	647-06-02	04-11-90	OFFICE	NONE DETECTED	N	200.	SF	12X12 FLOOR TILE	N/A
0647	WAREHOUSE	647-06-03	04-11-90	OFFICE	NONE DETECTED	N	200.	SF	12X12 FLOOR TILE	N/A

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0647	WAREHOUSE	647-07-01	04-11-90	OFFICE	NONE DETECTED	N	150.	SF	TAN LINOLEUM	N/A
0647	WAREHOUSE	647-07-02	04-11-90	OFFICE	NONE DETECTED	N	150.	SF	TAN LINOLEUM	N/A
0647	WAREHOUSE	647-07-03	04-11-90	OFFICE	NONE DETECTED	N	150.	SF	TAN LINOLEUM	N/A
0647	WAREHOUSE	647-08-01	11-28-90	OFFICES	NONE DETECTED	N	24000.	SF	DRYWALL AND MUD	N/A
0647	WAREHOUSE	647-08-02	11-28-90	OFFICES	NONE DETECTED	N	24000.	SF	DRYWALL AND MUD	N/A
0647	WAREHOUSE	647-08-03	11-28-90	OFFICES	NONE DETECTED	N	24000.	SF	DRYWALL AND MUD	N/A
0647	WAREHOUSE	647-09-01	11-28-90	OFFICES	NONE DETECTED	N	600.	SF	COVE BASE, MASTIC	N/A
0647	WAREHOUSE	647-09-02	11-28-90	OFFICES	NONE DETECTED	N	600.	SF	COVE BASE, MASTIC	N/A
0647	WAREHOUSE	647-09-03	11-28-90	OFFICES	NONE DETECTED	N	600.	SF	COVE BASE, MASTIC	N/A
0647	WAREHOUSE	647-10-01	11-28-90	EXTERIOR	20% CHRYSOTILE	N	15000.	SF	CAB SIDING W/TAR PAPER	O&M
0647	WAREHOUSE	647-10-02	11-28-90	EXTERIOR	20% CHRYSOTILE	N	15000.	SF	CAB SIDING W/TAR PAPER	O&M
0647	WAREHOUSE	647-10-03	11-28-90	EXTERIOR	20% CHRYSOTILE	N	15000.	SF	CAB SIDING W/TAR PAPER	O&M
0649	WAREHOUSE	649-01-01	04-10-90	EXTERIOR	33% CHRYSOTILE	N	15000.	SF	CEMENT ASBESTOS BOARD	O&M
0649	WAREHOUSE	649-01-02	04-10-90	EXTERIOR	33% CHRYSOTILE	N	15000.	SF	CEMENT ASBESTOS BOARD	O&M
0649	WAREHOUSE	649-01-03	04-10-90	EXTERIOR	33% CHRYSOTILE	N	15000.	SF	CEMENT ASBESTOS BOARD	O&M
0649	WAREHOUSE	649-02-01	11-28-90	EXTERIOR	TRACE CHRYSOTILE	Y	40.	LF	40 WINDOWS	N/A
0649	WAREHOUSE	649-02-02	11-28-90	EXTERIOR	TRACE CHRYSOTILE	Y	40.	LF	40 WINDOWS	N/A
0649	WAREHOUSE	649-02-03	11-28-90	EXTERIOR	TRACE CHRYSOTILE	Y	40.	LF	40 WINDOWS	N/A
0655	CHANGE HOUSE	655-01-01	04-11-90	OFFICE	2% TREM	N	100.		12X12 VINYL FLOOR TILE	O&M
0655	CHANGE HOUSE	655-01-02	04-11-90	OFFICE	1% TREM	N	100.		12X12 VINYL FLOOR TILE	O&M
0655	CHANGE HOUSE	655-02-01	04-11-90	FURNACE ROOM	30% CHRYSOTILE	Y	1.	EA	VIBRATION DAMPER	O&M
0655	CHANGE HOUSE	655-03-01	04-11-90	FURNACE ROOM	NONE DETECTED	Y	10.	SF	DUCT TAPE	N/A
0655	CHANGE HOUSE	655-03-02	04-11-90	FURNACE ROOM	NONE DETECTED	Y	10.	SF	DUCT TAPE	N/A
0655	CHANGE HOUSE	655-03-03	04-11-90	FURNACE ROOM	NONE DETECTED	Y	10.	SF	DUCT TAPE	N/A
0655	CHANGE HOUSE	655-04-01	04-11-90	FURNACE ROOM	40% CHRYSOTILE	Y	2.	LF	AIRCELL PIPE INSUL.	O&M
0655	CHANGE HOUSE	655-05-01	11-28-90	THROUGHOUT	TR% CHRYSOTILE	N	3600.	SF	SHEETROCK	N/A
0655	CHANGE HOUSE	655-05-02	11-28-90	THROUGHOUT	NONE DETECTED	N	3600.	SF	SHEETROCK	N/A
0655	CHANGE HOUSE	655-05-03	11-28-90	THROUGHOUT	NONE DETECTED	N	3600.	SF	SHEETROCK	N/A
0657	VEHICLE STR FA	657-01-01	04-11-90	OFFICE	NONE DETECTED	N	200.	SF	12X12 FLOOR TILE	N/A
0657	VEHICLE STR FA	657-01-02	04-11-90	OFFICE	NONE DETECTED	N	200.	SF	12X12 FLOOR TILE	N/A
0657	VEHICLE STR FA	657-01-03	04-11-90	OFFICE	NONE DETECTED	N	200.	SF	12X12 FLOOR TILE	N/A
0657	VEHICLE STR FA	657-02-01	11-27-90	EXTERIOR	TR% CHRYSOTILE	Y	40.	LF	WINDOWS	N/A
0657	VEHICLE STR FA	657-02-02	11-27-90	EXTERIOR	NONE DETECTED	Y	40.	LF	WINDOWS	N/A
0657	VEHICLE STR FA	657-02-03	11-27-90	EXTERIOR	NONE DETECTED	Y	40.	LF	WINDOWS	N/A
0659	WAREHOUSE	659-01-01	11-28-90	EXTERIOR	35% CHRYSOTILE	N	15000.	SF	CAB W/FELT	REPAIR/O&M
0659	WAREHOUSE	659-01-02	11-28-90	EXTERIOR	35% CHRYSOTILE	N	15000.	SF	CAB W/FELT	REPAIR/O&M

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0659	WAREHOUSE	659-01-03	11-28-90	EXTERIOR	35% CHRYSOTILE	N	15000.	SF	CAB W/FELT	REPAIR/O&M
0659	WAREHOUSE	659-02-01	11-28-90	EXTERIOR	NONE DETECTED	N	40.	LF	WINDOWS	N/A
0659	WAREHOUSE	659-02-02	11-28-90	EXTERIOR	NONE DETECTED	N	40.	LF	WINDOWS	N/A
0659	WAREHOUSE	659-02-03	11-28-90	EXTERIOR	NONE DETECTED	N	40.	LF	WINDOWS	N/A
0661	WAREHOUSE	661-01-01	11-28-90	EXTERIOR	20% CHRYSOTILE	N	15000.	SF	CAB W/FELT	O&M
0661	WAREHOUSE	661-01-02	11-28-90	EXTERIOR	20% CHRYSOTILE	N	15000.	SF	CAB W/FELT	O&M
0661	WAREHOUSE	661-01-03	11-28-90	EXTERIOR	20% CHRYSOTILE	N	15000.	SF	CAB W/FELT	O&M
0661	WAREHOUSE	661-02-01	11-28-90	EXTERIOR	NONE DETECTED	N	40.	LF	WINDOWS	N/A
0661	WAREHOUSE	661-02-02	11-28-90	EXTERIOR	NONE DETECTED	N	40.	LF	WINDOWS	N/A
0661	WAREHOUSE	661-02-03	11-28-90	EXTERIOR	NONE DETECTED	N	40.	LF	WINDOWS	N/A
0671	WAREHOUSE	671-01-01	03-28-90	THROUGHOUT	1% CHRYSOTILE	N	45400.	SF	9X9 FLOOR TILE	O&M
0671	WAREHOUSE	671-01-02	03-28-90	THROUGHOUT	1% CHRYSOTILE	N	45400.	SF	9X9 FLOOR TILE	O&M
0671	WAREHOUSE	671-01-03	03-28-90	THROUGHOUT	1% CHRYSOTILE	N	45400.	SF	9X9 FLOOR TILE	O&M
0671	WAREHOUSE	671-02-01	03-28-90	COMPUTER OFFICES	NONE DETECTED	Y	10000.	SF	2X4 CEILING TILE	N/A
0671	WAREHOUSE	671-02-02	03-28-90	COMPUTER OFFICES	NONE DETECTED	Y	10000.	SF	2X4 CEILING TILE	N/A
0671	WAREHOUSE	671-02-03	03-28-90	COMPUTER OFFICES	NONE DETECTED	Y	10000.	SF	2X4 CEILING TILE	N/A
0671	WAREHOUSE	671-02-04	03-28-90	CAFETERIA	NONE DETECTED	Y	10000.	SF	2X4 CEILING TILE	N/A
0671	WAREHOUSE	671-02-05	03-28-90	MAIL ROOM	NONE DETECTED	Y	10000.	SF	2X4 CEILING TILE	N/A
0671	WAREHOUSE	671-03-01	03-28-90	COMPUTER LAB	35% CHRYSOTILE	Y	5.	EA	ONE VIBRATION JOINT	O&M
0671	WAREHOUSE	671-03-02	03-28-90	COMPUTER LAB	45% CHRYSOTILE	Y	5.	EA	ONE VIBRATION JOINT	O&M
0671	WAREHOUSE	671-03-03	03-28-90	COMPUTER LAB	40% CHRYSOTILE	Y	5.	EA	ONE VIBRATION JOINT	O&M
0671	WAREHOUSE	671-03-04	03-28-90	COMPUTER LAB	NONE DETECTED	Y	5.	EA	ONE VIBRATION JOINT	O&M
0671	WAREHOUSE	671-04-01	03-28-90	MAIL ROOM	1% TREMOLITE	N	250.	SF	12x12 FLOOR TILE	O&M
0671	WAREHOUSE	671-04-02	03-28-90	MAIL ROOM	1% TREMOLITE	N	250.	SF	12X12 FLOOR TILE	O&M
0671	WAREHOUSE	671-04-03	03-28-90	MAIL ROOM	1% TREMOLITE	N	250.	SF	12X12 FLOOR TILE	O&M
0671	WAREHOUSE	671-05-01	03-28-90	MECH ROOM	NONE DETECTED	Y	10.	LF	PIPE JOINT INSUL	N/A
0671	WAREHOUSE	671-05-02	03-28-90	MECH ROOM	NONE DETECTED	Y	10.	LF	PIPE JOINT INSUL	N/A
0671	WAREHOUSE	671-05-03	03-28-90	MECH ROOM	NONE DETECTED	Y	10.	LF	PIPE JOINT INSUL	N/A
0671	WAREHOUSE	671-05-04	03-28-90	MECH ROOM	NONE DETECTED	Y	10.	LF	PIPE JOINT INSUL	N/A
0671	WAREHOUSE	671-06-01	03-28-90	MECH ROOM	NONE DETECTED	Y	5.	SF	BOILER GASKET	N/A
0671	WAREHOUSE	671-06-02	03-28-90	MECH ROOM	NONE DETECTED	Y	5.	SF	BOILER GASKET	N/A
0671	WAREHOUSE	671-06-03	11-28-90	MECH ROOM	NONE DETECTED	Y	5.	SF	BOILER GASKET	N/A
0671	WAREHOUSE	671-07-01	03-28-90	MECH ROOM	20% CHRYSOTILE	N	500.	SF	TRANSITE SIDING	O&M
0671	WAREHOUSE	671-07-02	03-28-90	MECH ROOM	15% CHRYSOTILE	N	500.	SF	TRANSITE SIDING	O&M
0671	WAREHOUSE	671-08-01	11-28-90	THROUGHOUT	NONE DETECTED	N	30000.	SF	SHEETROCK & MUD	N/A
0671	WAREHOUSE	671-08-02	11-28-90	THROUGHOUT	NONE DETECTED	N	30000.	SF	SHEETROCK & MUD	N/A

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0671	WAREHOUSE	671-08-03	11-28-90	THROUGHOUT	NONE DETECTED	N	30000.	SF	SHEETROCK & MUD	N/A
0671	WAREHOUSE	671-09-01	11-28-90	MAIL ROOMT	NONE DETECTED	N	100.	SF	COVE BASE W/MASTIC	N/A
0671	WAREHOUSE	671-09-02	11-28-90	MAIL ROOMT	NONE DETECTED	N	100.	SF	COVE BASE W/MASTIC	N/A
0671	WAREHOUSE	671-09-03	11-28-90	MAIL ROOMT	NONE DETECTED	N	100.	SF	COVE BASE W/MASTIC	N/A
0671	WAREHOUSE	671-10-01	11-28-90	EXTERIOR	NONE DETECTED	N	300.	LF	WINDOW PUTTY	N/A
0671	WAREHOUSE	671-10-02	11-28-90	EXTERIOR	NONE DETECTED	N	300.	LF	WINDOW PUTTY	N/A
0671	WAREHOUSE	671-10-03	11-28-90	EXTERIOR	NONE DETECTED	N	300.	LF	WINDOW PUTTY	N/A
0677	WAREHOUSE	677-01-01	03-28-90	EXTERIOR	25% CHRY.	N	15000.	SF	C.A.B. SIDING AND FELT	REPAIR/O&M
0677	WAREHOUSE	677-01-02	03-28-90	EXTERIOR	25% CHRY.	N	15000.	SF	C.A.B. SIDING AND FELT	REPAIR/O&M
0677	WAREHOUSE	677-01-03	03-28-90	EXTERIOR	25% CHRY.	N	15000.	SF	C.A.B. SIDING AND FELT	REPAIR/O&M
0677	WAREHOUSE	677-02-01	03-28-90	EXTERIOR	NONE DETECTED	Y	40.	EA	WINDOW PUTTY	N/A
0677	WAREHOUSE	677-02-02	03-28-90	EXTERIOR	NONE DETECTED	Y	40.	EA	WINDOW PUTTY	N/A
0677	WAREHOUSE	677-02-03	03-28-90	EXTERIOR	NONE DETECTED	Y	40.	EA	WINDOW PUTTY	N/A
0691	SHIPPING & RECV	691-01-01	04-9-90	SOUTH SHOP	NONE DETECTED	Y	20000.	SF	SPRAY APPLIED PLASTER	N/A
0691	SHIPPING & RECV	691-01-02	04-9-90	SOUTH SHOP	NONE DETECTED	Y	20000.	SF	SPRAY APPLIED PLASTER	N/A
0691	SHIPPING & RECV	691-01-03	04-9-90	SOUTH SHOP	NONE DETECTED	Y	20000.	SF	SPRAY APPLIED PLASTER	N/A
0691	SHIPPING & RECV	691-01-04	04-9-90	SOUTH SHOP	NONE DETECTED	Y	20000.	SF	SPRAY APPLIED PLASTER	N/A
0691	SHIPPING & RECV	691-02-01	04-9-90	BREAK ROOM	10% CHRY.	N	3600.	SF	12X12 FLOOR TILE	O&M
0691	SHIPPING & RECV	691-02-02	04-9-90	BREAK ROOM	1% CHRY.	N	3600.	SF	12X12 FLOOR TILE	O&M
0691	SHIPPING & RECV	691-02-03	04-9-90	BREAK ROOM	1% CHRY.	N	3600.	SF	12X12 FLOOR TILE	O&M
0691	SHIPPING & RECV	691-03-01	04-9-90	MECHANICAL ROOM	10% CH. 15% AM	Y	80.	SF	TANK INSULATION	O&M
0691	SHIPPING & RECV	691-03-02	04-9-90	MECHANICAL ROOM	15% CH. 20% AM	Y	80.	SF	TANK INSULATION	O&M
0691	SHIPPING & RECV	691-03-03	04-9-90	MECHANICAL ROOM	15% CH. 20% AM	Y	80.	SF	TANK INSULATION	O&M
0691	SHIPPING & RECV	691-04-01	04-9-90	MECHANICAL ROOM	NONE DETECTED	Y	300.	SF	GYPSUM BOARD	N/A
0691	SHIPPING & RECV	691-04-02	04-9-90	MECHANICAL ROOM	NONE DETECTED	Y	300.	SF	GYPSUM BOARD	N/A
0691	SHIPPING & RECV	691-04-03	04-9-90	MECHANICAL ROOM	NONE DETECTED	Y	300.	SF	GYPSUM BOARD	N/A
0691	SHIPPING & RECV	691-05-01	04-9-90	MECHANICAL ROOM	10% CH 35% AM	Y	100.	SF	FLUE INSULATION	O&M
0691	SHIPPING & RECV	691-05-02	04-9-90	MECHANICAL ROOM	15% CH 2% AM	Y	100.	SF	FLUE INSULATION	O&M
0691	SHIPPING & RECV	691-05-03	04-9-90	MECHANICAL ROOM	6% CH	Y	100.	SF	FLUE INSULATION	O&M
0691	SHIPPING & RECV	691-06-01	04-9-90	THROUGH OUT	NONE DETECTED	N	500.	LF	COVE BASE AND MASTIC	N/A
0691	SHIPPING & RECV	691-06-02	04-9-90	THROUGH OUT	NONE DETECTED	N	500.	LF	COVE BASE AND MASTIC	N/A
0691	SHIPPING & RECV	691-06-03	04-9-90	THROUGH OUT	NONE DETECTED	N	500.	LF	COVE BASE AND MASTIC	N/A
0694	CHANGE HOUSE	694-01-01	14-9-90	EXTERIOR	NONE DETECTED	Y	10.	LF	WINDOW PUTY	N/A
0694	CHANGE HOUSE	694-01-02	14-9-90	EXTERIOR	NONE DETECTED	Y	10.	LF	WINDOW PUTY	N/A
0694	CHANGE HOUSE	694-01-03	14-9-90	EXTERIOR	NONE DETECTED	Y	10.	LF	WINDOW PUTY	N/A
0699	VEHICLE STR FA	699-01-01	14-9-90	EXTERIOR	35% CHRY.	N	15000.	SF	C.A.B. SIDING & FELT	REPAIR/O&M

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0699	VEHICLE STR FA	699-01-02	14-9-90	EXTERIOR	35% CHRY.	N	15000.	SF	C.A.B. SIDING & FELT	REPAIR/O&M
0699	VEHICLE STR FA	699-01-03	14-9-90	EXTERIOR	30% CHRY.	N	15000.	SF	C.A.B. SIDING & FELT	REPAIR/O&M
0699	VEHICLE STR FA	699-02-01	14-9-90	EXTERIOR	NONE DETECTED	Y	40.	EA	WINDOW PUTTY	N/A
0699	VEHICLE STR FA	699-02-02	14-9-90	EXTERIOR	NONE DETECTED	Y	40.	EA	WINDOW PUTTY	N/A
0699	VEHICLE STR FA	699-02-03	14-9-90	EXTERIOR	NONE DETECTED	Y	40.	EA	WINDOW PUTTY	N/A
0735	INDR FIRE RG	735-01-01	14-9-90	THROUGH OUT	NONE DETECTED	Y	2000.	SF	SHEET ROCK	N/A
0735	INDR FIRE RG	735-01-02	14-9-90	THROUGH OUT	NONE DETECTED	Y	2000.	SF	SHEET ROCK	N/A
0735	INDR FIRE RG	735-01-03	14-9-90	THROUGH OUT	NONE DETECTED	Y	2000.	SF	SHEET ROCK	N/A
0753	APPL INST BLDG	753-01-01	14-9-90	THROUGH OUT	30% CHRY.	N	1350.	SF	LINOLEUM FLOORING	O&M
0753	APPL INST BLDG	753-01-02	14-9-90	THROUGH OUT	20% CHRY.	N	1350.	SF	LINOLEUM FLOORING	O&M
0753	APPL INST BLDG	753-01-03	14-9-90	THROUGH OUT	20% CHRY.	N	1350.	SF	LINOLEUM FLOORING	O&M
0753	APPL INST BLDG	753-02-01	14-9-90	THROUGH OUT	NONE DETECTED	Y	320.	SF	SHEET ROCK	N/A
0753	APPL INST BLDG	753-02-02	14-9-90	THROUGH OUT	NONE DETECTED	Y	320.	SF	SHEET ROCK	N/A
0753	APPL INST BLDG	753-02-03	14-9-90	THROUGH OUT	NONE DETECTED	Y	320.	SF	SHEET ROCK	N/A
0753	APPL INST BLDG	753-03-01	14-9-90	ATTIC	NONE DETECTED	Y	1350.	SF	BLOWN INSULATION	N/A
0753	APPL INST BLDG	753-03-02	14-9-90	ATTIC	NONE DETECTED	Y	1350.	SF	BLOWN INSULATION	N/A
0753	APPL INST BLDG	753-03-03	14-9-90	ATTIC	NONE DETECTED	Y	1350.	SF	BLOWN INSULATION	N/A
1000	POLICE STATION	1000-01-01	4-10-90	NORTH OFFICES	20% CHRY	N	100.	SF	MOSAIC LINOLEUM	O&M
1000	POLICE STATION	1000-01-02	4-10-90	NORTH OFFICES	20% CHRY	N	100.	SF	MOSAIC LINOLEUM	O&M
1000	POLICE STATION	1000-01-03	4-10-90	NORTH OFFICES	20% CHRY	N	100.	SF	MOSAIC LINOLEUM	O&M
1000	POLICE STATION	1000-01-04	4-10-90	NORTH OFFICES	20% CHRY	N	100.	SF	MOSAIC LINOLEUM	O&M
1000	POLICE STATION	1000-02-01	4-10-90	OFFICES	NONE DETECTED	Y	5000.	SF	2X4 CEILING TILES	N/A
1000	POLICE STATION	1000-02-02	4-10-90	OFFICES	NONE DETECTED	Y	5000.	SF	2X4 CEILING TILES	N/A
1000	POLICE STATION	1000-02-03	4-10-90	OFFICES	NONE DETECTED	Y	5000.	SF	2X4 CEILING TILES	N/A
1000	POLICE STATION	1000-03-01	4-10-90	OFFICES	7% CHRY	N	15000.	SF	9X9 GRENN FLOOR TILE	O&M
1000	POLICE STATION	1000-03-02	4-10-90	OFFICES	9% CHRY	N	15000.	SF	9X9 GREEN FLOOR TILE	O&M
1000	POLICE STATION	1000-03-03	4-10-90	OFFICES	10% CHRY	N	15000.	SF	9X9 GREEN FLOOR TILE	O&M
1000	POLICE STATION	1000-03-04	4-10-90	OFFICES	5% CHRY	N	15000.	SF	9X9 RED FLOOR TILE	O&M
1000	POLICE STATION	1000-03-05	4-10-90	OFFICES	5% CHRY	N	15000.	SF	9X9 TAN FLOOR TILE	O&M
1000	POLICE STATION	1000-04-01	4-10-90	OFFICES	NONE DETECTED	Y	17600.	SF	BLOWN IN INS	N/A
1000	POLICE STATION	1000-04-02	4-10-90	OFFICES	NONE DETECTED	Y	17600.	SF	BLOWN IN INS	N/A
1000	POLICE STATION	1000-05-01	4-10-90	OLD MECH ROOM	45% CHRY	Y	150.	LF	AIRCELL INSULATION	O&M
1000	POLICE STATION	1000-06-01	4-10-90	OLD MECH ROOM	30% CHR 10% AMO	Y	10.	EA	PIPE JOINT INS	O&M

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1000	POLICE STATION	1000-01-01	4-10-90	NORTH OFFICES	20% CHRY	N	100.	SF	MOSAIC LINOLEUM	O&M
1000	POLICE STATION	1000-01-02	4-10-90	NORTH OFFICES	20% CHRY	N	100.	SF	MOSAIC LINOLEUM	O&M
1000	POLICE STATION	1000-01-03	4-10-90	NORTH OFFICES	20% CHRY	N	100.	SF	MOSAIC LINOLEUM	O&M
1000	POLICE STATION	1000-01-04	4-10-90	NORTH OFFICES	20% CHRY	N	100.	SF	MOSAIC LINOLEUM	O&M
1000	POLICE STATION	1000-02-01	4-10-90	OFFICES	NONE DETECTED	Y	5000.	SF	2X4 CEILING TILES	N/A
1000	POLICE STATION	1000-02-02	4-10-90	OFFICES	NONE DETECTED	Y	5000.	SF	2X4 CEILING TILES	N/A
1000	POLICE STATION	1000-02-03	4-10-90	OFFICES	NONE DETECTED	Y	5000.	SF	2X4 CEILING TILES	N/A
1000	POLICE STATION	1000-03-01	4-10-90	OFFICES	7% CHRY	N	15000.	SF	9X9 GRENN FLOOR TILE	O&M
1000	POLICE STATION	1000-03-02	4-10-90	OFFICES	9% CHRY	N	15000.	SF	9X9 GREEN FLOOR TILE	O&M
1000	POLICE STATION	1000-03-03	4-10-90	OFFICES	10% CHRY	N	15000.	SF	9X9 GREEN FLOOR TILE	O&M
1000	POLICE STATION	1000-03-04	4-10-90	OFFICES	5% CHRY	N	15000.	SF	9X9 RED FLOOR TILE	O&M
1000	POLICE STATION	1000-03-05	4-10-90	OFFICES	5% CHRY	N	15000.	SF	9X9 TAN FLOOR TILE	O&M
1000	POLICE STATION	1000-04-01	4-10-90	OFFICES	NONE DETECTED	Y	17600.	SF	BLOWN IN INS	N/A
1000	POLICE STATION	1000-04-02	4-10-90	OFFICES	NONE DETECTED	Y	17600.	SF	BLOWN IN INS	N/A
1000	POLICE STATION	1000-05-01	4-10-90	OLD MECH ROOM	45% CHRY	Y	150.	LF	AIRCELL INSULATION	O&M
1000	POLICE STATION	1000-06-01	4-10-90	OLD MECH ROOM	30% CHR 10% AMO	Y	10.	EA	PIPE JOINT INS	O&M
1000	POLICE STATION	1000-07-01	4-10-90	TRAINING CENTER	5% CHRY	N	225.	SF	MAROON LINOLEUM	O&M
1000	POLICE STATION	1000-07-02	4-10-90	TRAINING CENTER	5% CHRY	N	225.	SF	MAROON LINOLEUM	O&M
1000	POLICE STATION	1000-07-03	4-10-90	TRAINING CENTER	NONE DETECTED	N	225.	SF	MAROON LINOLEUM	O&M
1000	POLICE STATION	1000-08-01	4-10-90	THROUGHOUT	NONE DETECTED	Y	10000.	SF	GYPBOARD AND MUD	N/A
1000	POLICE STATION	1000-08-02	4-10-90	THROUGHOUT	NONE DETECTED	Y	10000.	SF	GYPBOARD AND MUD	N/A
1000	POLICE STATION	1000-08-03	4-10-90	THROUGHOUT	NONE DETECTED	Y	10000.	SF	GYPBOARD AND MUD	N/A
1000	POLICE STATION	1000-09-01	4-10-90	THROUGHOUT	NONE DETECTED	N	800.	LF	COVEBASE AND MASTIC	N/A
1000	POLICE STATION	1000-09-02	11-14-90	THROUGHOUT	NONE DETECTED	N	800.	LF	COVEBASE AND MASTIC	N/A
1000	POLICE STATION	1000-09-03	11-14-90	THROUGHOUT	NONE DETECTED	N	800.	LF	COVEBASE AND MASTIC	N/A
1001	ADMIN, GEN PURP	1001-01-01	4-10-90	THROUGHOUT	10% CHRY	N	3178.	SF	9X9 TAN FLOOR TILE	O&M
1001.	ADMIN, GEN PURP	1001-01-02	4-10-90	THROUGHOUT	10% CHRY	N	3178.	SF	9X9 TAN FLOOR TILE	O&M
1001	ADMIN, GEN PURP	1001-01-03	4-10-90	THROUGHOUT	10% CHRY	N	3178.	SF	9X9 TAN FLOOR TILE	O&M
1001	ADMIN, GEN PURP	1001-02-01	4-10-90	NORTHEAST OFFICE	NONE DETECTED	Y	350.	SF	2X4 CEILING TILE	N/A
1001	ADMIN, GEN PURP	1001-02-02	4-10-90	NORTHEAST OFFICE	NONE DETECTED	Y	350.	SF	2X4 CEILING TILE	N/A
1001	ADMIN, GEN PURP	1001-02-03	4-10-90	NORTHEAST OFFICE	NONE DETECTED	Y	350.	SF	2X4 CEILING TILE	N/A
1001	ADMIN, GEN PURP	1001-03-01	4-10-90	THROUGHOUT	NONE DETECTED	N	350.	LF	COVEBASE	N/A
1001	ADMIN, GEN PURP	1001-03-02	4-10-90	THROUGHOUT	NONE DETECTED	N	350.	LF	COVEBASE	N/A
1001	ADMIN, GEN PURP	1001-03-03	4-10-90	THROUGHOUT	NONE DETECTED	N	350.	LF	COVEBASE	N/A
1001	ADMIN, GEN PURP	1001-04-01	4-10-90	THROUGHOUT	NONE DETECTED	Y	3000.	SF	GYPSUM BOARD (NO MUD)	N/A
1001	ADMIN, GEN PURP	1001-04-02	4-10-90	THROUGHOUT	NONE DETECTED	Y	3000.	SF	GYPSUM BOARD (NO MUD)	N/A

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1000	POLICE STATION	1000-07-01	4-10-90	TRAINING CENTER	5% CHRY	N	225.	SF	MAROON LINOLEUM	O&M
1000	POLICE STATION	1000-07-02	4-10-90	TRAINING CENTER	5% CHRY	N	225.	SF	MAROON LINOLEUM	O&M
1000	POLICE STATION	1000-07-03	4-10-90	TRAINING CENTER	NONE DETECTED	N	225.	SF	MAROON LINOLEUM	N/A
1000	POLICE STATION	1000-08-01	4-10-90	THROUGHOUT	NONE DETECTED	Y	10000.	SF	GYPBOARD AND MUD	N/A
1000	POLICE STATION	1000-08-02	4-10-90	THROUGHOUT	NONE DETECTED	Y	10000.	SF	GYPBOARD AND MUD	N/A
1000	POLICE STATION	1000-08-03	4-10-90	THROUGHOUT	NONE DETECTED	Y	10000.	SF	GYPBOARD AND MUD	N/A
1000	POLICE STATION	1000-09-01	4-10-90	THROUGHOUT	NONE DETECTED	N	800.	LF	COVEBASE AND MASTIC	N/A
1000	POLICE STATION	1000-09-02	11-14-90	THROUGHOUT	NONE DETECTED	N	800.	LF	COVEBASE AND MASTIC	N/A
1000	POLICE STATION	1000-09-03	11-14-90	THROUGHOUT	NONE DETECTED	N	800.	LF	COVEBASE AND MASTIC	N/A

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1001	ADMIN, GEN PURP	1001-04-03	4-10-90	THROUGHOUT	NONE DETECTED	Y	3000.	SF	GYPSUM BOARD (NO MUD)	N/A
1002	GYMNASIUM	1002-01-01	4-10-90	WEST OFFICE	NONE DETECTED	Y	5000.	SF	2X4 CEILING TILE	N/A
1002	GYMNASIUM	1002-01-02	4-10-90	WEST OFFICE	NONE DETECTED	Y	5000.	SF	2X4 CEILING TILE	N/A
1002	GYMNASIUM	1002-01-03	4-10-90	WEST OFFICE	NONE DETECTED	Y	5000.	SF	2X4 CEILING TILE	N/A
1002	GYMNASIUM	1002-02-01	4-10-90	WEST OFFICES	10% CHRY	N	2000.	SF	GREEN LINOLEUM	O&M
1002	GYMNASIUM	1002-02-02	4-10-90	WEST OFFICES	10% CHRY	N	2000.	SF	GREEN LINOLEUM	O&M
1002	GYMNASIUM	1002-02-03	4-10-90	WEST OFFICES	10% CHRY	N	2000.	SF	GREEN LINOLEUM	O&M
1002	GYMNASIUM	1002-03-01	4-10-90	WEST OFFICES	NONE DETECTED	N	250.	SF	WHITE 12X12 FLOOR TILE	N/A
1002	GYMNASIUM	1002-03-02	4-10-90	WEST OFFICES	NONE DETECTED	N	250.	SF	WHITE 12X12 FLOOR TILE	N/A
1002	GYMNASIUM	1002-03-03	4-10-90	WEST OFFICES	NONE DETECTED	N	250.	SF	WHITE 12X12 FLOOR TILE	N/A
1002	GYMNASIUM	1002-04-01	4-10-90	GYM MECH/BMT MECH	NONE DETECTED	Y	45.	SF	PIPE WRAP	O&M
1002	GYMNASIUM	1002-04-02	4-10-90	GYM MECH/BMT MECH	NONE DETECTED	Y	45.	SF	PIPE WRAP	O&M
1002	GYMNASIUM	1002-04-03	4-10-90	GYM MECH/BMT MECH	7% CHRY 10% AMOS	Y	45.	SF	PIPE WRAP	O&M
1002	GYMNASIUM	1002-05-01	4-10-90	GYM MECH ROOM	NONE DETECTED	N	50.	SF	DUCT TAPE	N/A
1002	GYMNASIUM	1002-05-02	4-10-90	GYM MECH ROOM	NONE DETECTED	N	50.	SF	DUCT TAPE	N/A
1002	GYMNASIUM	1002-06-01	4-10-90	BSMT MECH ROOM	NONE DETECTED	Y	8.	EA	STORED ASBESTOS BAGS	N/A
1002	GYMNASIUM	1002-06-02	4-10-90	BSMT MECH ROOM	NONE DETECTED	Y	8.	EA	STORED ASBESTOS BAGS	N/A
1002	GYMNASIUM	1002-06-03	4-10-90	BSMT MECH ROOM	NONE DETECTED	Y	8.	EA	STORED ASBESTOS BAGS	N/A
1002	GYMNASIUM	1002-07-01	4-10-90	THROUGHOUT	NONE DETECTED	N	400.	LF	COVEBASE	N/A
1002	GYMNASIUM	1002-07-02	4-10-90	THROUGHOUT	NONE DETECTED	N	400.	LF	COVEBASE	N/A
1002	GYMNASIUM	1002-07-03	4-10-90	THROUGHOUT	NONE DETECTED	N	400.	LF	COVEBASE	N/A
1002	GYMNASIUM	1002-08-01	4-10-90	THROUGHOUT	NONE DETECTED	Y	5000.	SF	GYPSUM BOARD AND MUD	N/A
1002	GYMNASIUM	1002-08-02	4-10-90	THROUGHOUT	NONE DETECTED	Y	5000.	SF	GYPSUM BOARD AND MUD	N/A
1002	GYMNASIUM	1002-08-03	4-10-90	THROUGHOUT	NONE DETECTED	Y	5000.	SF	GYPSUM BOARD AND MUD	N/A
1002	GYMNASIUM	1002-09-01	4-10-90	THROUGHOUT	NONE DETECTED	Y	3000.	SF	1'X1' CEILING TILE	N/A
1002	GYMNASIUM	1002-09-02	4-10-90	THROUGHOUT	NONE DETECTED	Y	3000.	SF	1'X1' CEILING TILE	N/A
1002	GYMNASIUM	1002-09-03	4-10-90	THROUGHOUT	NONE DETECTED	Y	3000.	SF	1'X1' CEILING TILE	N/A
1004	GYMNASIUM	1004-01-01	4-11-90	MECHANICAL ROOM	70% CHRYS	Y	5.	LF	PIPE INSULATION DEBRIS	REPAIR/O&M
1004	GYMNASIUM	1004-01-02	4-11-90	MECHANICAL ROOM	75% CHRYS	Y	5.	LF	PIPE INSULATION DEBRIS	REPAIR/O&M
1004	GYMNASIUM	1004-02-01	4-11-90	HALLWAY & OFFICES	7% CHRYS	N	500.	SF	WHITE 12X12 FLOOR TILE	O&M
1004	GYMNASIUM	1004-02-02	4-11-90	HALLWAY & OFFICES	3% CHRYS	N	500.	SF	WHITE 12X12 FLOOR TILE	O&M
1004	GYMNASIUM	1004-02-03	4-11-90	HALLWAY & OFFICES	10% CHRYS	N	500.	SF	WHITE 12X12 FLOOR TILE	O&M
1004	GYMNASIUM	1004-03-01	4-11-90	BATH AND CLASSROOMS	3% CHRYS	N	500.	SF	12X12 FLOOR TILE	O&M
1004	GYMNASIUM	1004-03-02	4-11-90	BATH AND CLASSROOMS	NONE DETECTED	N	500.	SF	12X12 FLOOR TILE	O&M
1004	GYMNASIUM	1004-03-03	4-11-90	BATH AND CLASSROOMS	5% CHRY	N	500.	SF	12X12 FLOOR TILE	O&M
1004	GYMNASIUM	1004-04-01	4-11-90	KILN	NONE DETECTED	N	3.	EA	KILN LINING	N/A

ASBESTOS AUDIT

ASBESTOS DATABASE FIELD DATA
PROJECT NO: 08545 TEAD, UTAH -NORTH
REPORT DATE: 01/31/91

BLDG. NUMBER	BLDG. NAME	SAMPLE NUMBER	SAMPLE DATE	LOCATION	ASBESTOS CONTENT	FRIABLE	AMOUNT	UNITS	ACM USE / COMMENTS	ABATEMENT RECCOMEND.
1005	ADMIN, GEN PURP	1005-12-02	4-10-90	MAIN CORRIDOR	NONE DETECTED	Y	1200.	SF	2X4 CEILING TILE	N/A
1005	ADMIN, GEN PURP	1005-13-01	4-10-90	1ST FLOOR	3% CHRY	N	13000.	SF	12X12 FLOOR TILE	REPAIR/O&M
1005	ADMIN, GEN PURP	1005-13-02	4-10-90	1ST FLOOR	3% CHRY	N	13000.	SF	12X12 FLOOR TILE	REPAIR/O&M
1005	ADMIN, GEN PURP	1005-14-01	4-10-90	DRAWING VAULT	2% TREM	N	500.	SF	DK BEIGE 12X12 FLOOR TILE	REPAIR/O&M
1005	ADMIN, GEN PURP	1005-14-02	4-10-90	DRAWING VAULT	10% CHRY	N	500.	SF	DK BEIGE 12X12 FLOOR TILE	REPAIR/O&M
1005	ADMIN, GEN PURP	1005-15-01	4-10-90	DRAWING VAULT	NONE DETECTED	Y	40000.	SF	GYPSUM BOARD AND MUD	N/A
1005	ADMIN, GEN PURP	1005-15-02	4-10-90	DRAWING VAULT	NONE DETECTED	Y	40000.	SF	GYPSUM BOARD AND MUD	N/A
1005	ADMIN, GEN PURP	1005-15-03	4-10-90	DRAWING VAULT	NONE DETECTED	Y	40000.	SF	GYPSUM BOARD AND MUD	N/A
1005	ADMIN, GEN PURP	1005-16-01	4-10-90	DRAWING VAULT	10% CHRY	N	250.	SF	GREEN 9X9 FLOOR TILE	REPAIR/O&M
1005	ADMIN, GEN PURP	1005-17-01	4-10-90	OFFICE AREA	NONE DETECTED	N	1000.	LF	COVEBASE	N/A
1005	ADMIN, GEN PURP	1005-17-02	4-10-90	OFFICE AREA	NONE DETECTED	N	1000.	LF	COVEBASE	N/A
1005	ADMIN, GEN PURP	1005-17-03	4-10-90	OFFICE AREA	NONE DETECTED	N	1000.	LF	COVEBASE	N/A
1005	ADMIN, GEN PURP	1005-18-01	4-10-90	CORRIDOR/OFFICES	NONE DETECTED	N	500.	SF	VINYL WALL COVERING	N/A
1005	ADMIN, GEN PURP	1005-18-02	4-10-90	CORRIDOR/OFFICES	NONE DETECTED	N	500.	SF	VINYL WALL COVERING	N/A
1005	ADMIN, GEN PURP	1005-18-03	4-10-90	CORRIDOR/OFFICES	NONE DETECTED	N	500.	SF	VINYL WALL COVERING	N/A
1005	ADMIN, GEN PURP	1005-19-01	4-10-90	THROUGHOUT	NONE DETECTED	N	16000.	SF	FLOOR TILE MASTIC	N/A
1005	ADMIN, GEN PURP	1005-19-02	4-10-90	THROUGHOUT	NONE DETECTED	N	16000.	SF	FLOOR TILE MASTIC	N/A
1005	ADMIN, GEN PURP	1005-19-03	4-10-90	THROUGHOUT	NONE DETECTED	N	16000.	SF	FLOOR TILE MASTIC	N/A
1010	CIVILIAN PERSON	1010-01-01	4-10-90	FURNACE	75% CHRY	Y	5.	SF	TAPE ON FURNACE	O&M
1010	CIVILIAN PERSON	1010-01-02	4-10-90	FURNACE	35% CHRY	Y	5.	SF	TAPE ON FURNACE	O&M
1010	CIVILIAN PERSON	1010-01-03	4-10-90	FURNACE	35% CHRY	Y	5.	SF	TAPE ON FURNACE	O&M
1010	CIVILIAN PERSON	1010-02-01	4-10-90	LATRINE/UNDER STAIR	30% CHRY	N	500.	SF	GREEN LINOLEUM	O&M
1010	CIVILIAN PERSON	1010-02-02	4-10-90	LATRINE/UNDER STAIR	35% CHRY	N	500.	SF	GREEN LINOLEUM	O&M
1010	CIVILIAN PERSON	1010-02-03	4-10-90	LATRINE/UNDER STAIR	35% CHRY	N	500.	SF	GREEN LINOLEUM	O&M
1010	CIVILIAN PERSON	1010-03-01	4-10-90	THROUGHOUT	NONE DETECTED	Y	30000.	SF	2X4 CEILING TILE	N/A
1010	CIVILIAN PERSON	1010-03-02	4-10-90	THROUGHOUT	NONE DETECTED	Y	30000.	SF	2X4 CEILING TILE	N/A
1010	CIVILIAN PERSON	1010-03-03	4-10-90	THROUGHOUT	NONE DETECTED	Y	30000.	SF	2X4 CEILING TILE	N/A
1010	CIVILIAN PERSON	1010-04-01	4-10-90	1ST FLOOR OFFICE	NONE DETECTED	Y	500.	SF	VERMICULITE INSULATION	N/A
1010	CIVILIAN PERSON	1010-05-01	4-10-90	THROUGHOUT	NONE DETECTED	Y	4500.	SF	SHEETROCK AND MUD	N/A
1010	CIVILIAN PERSON	1010-05-02	4-10-90	THROUGHOUT	NONE DETECTED	Y	4500.	SF	SHEETROCK AND MUD	N/A
1010	CIVILIAN PERSON	1010-05-03	4-10-90	THROUGHOUT	NONE DETECTED	Y	4500.	SF	SHEETROCK AND MUD	N/A
1010	CIVILIAN PERSON	1010-06-01	4-10-90	CONFERENCE	NONE DETECTED	N	200.	SF	COVEBASE	N/A
1010	CIVILIAN PERSON	1010-06-02	4-10-90	CONFERENCE	NONE DETECTED	N	200.	SF	COVEBASE	N/A
1010	CIVILIAN PERSON	1010-06-03	4-10-90	CONFERENCE	NONE DETECTED	N	200.	SF	COVEBASE	N/A
1010	CIVILIAN PERSON	1010-07-01	4-10-90	CONFERENCE	NONE DETECTED	Y	500.	SF	VINYL WALL COVERING	N/A
1010	CIVILIAN PERSON	1010-07-02	4-10-90	CONFERENCE	NONE DETECTED	Y	500.	SF	VINYL WALL COVERING	N/A

APPENDIX E

BRAC PARCEL PCB-CONTAINING TRANSFORMERS

Table E-1. BRAC Parcel PCB - Transformer Listing.

Notes	TEAD#	Pole/Pad	Serial Number	KVA	Transformer Weight (lbs)	Fluid Volume (gal)	Concentration (ppm)	Date	Lab ID
	TTA556	Pole	7093726	25	900	30	2,900	10/11/90	4251-24
	TTA559	Pole	7093722	25	900	30	2,100	10/11/90	4251-27
	TTA566	Pad	9913052	100	1,600	51	53,000	09/29/90	4251-34
	TTA563	Pad	9913056	100	1,600	51	35,000	09/29/90	4251-31
Removed 7/2/92, Out of Service 10/28/92	NA	NA	NA	NA	NA	NA	18,000	NA	NA
	TTA229	Pad	68J1919	250	1,745	51	650	08/16/90	3234-09
	TTA230	Pad	68J1921	250	1,745	51	650	08/16/90	3234-08
	TTA231	Pad	68J1918	250	1,745	51	600	08/16/90	3234-07
	TTA115	Pole	6705697	10	200	11	500	05/21/90	3072-10
Removed 10/17/92, Out of Service 12/5/92	TTA321	Pole	6513996	5	NA	NA	1,100	08/16/90	3535-57

BRAC Base Realignment and Closure
gal gallon(s)
ID Identification
KVA Kilovoltamperes
lbs pound(s)
NA Not Applicable
PCB Polychlorinated biphenyl
ppm parts per million
TEAD# Tooele Army Depot Number

Table E-2. BRAC Parcel PCB - Contaminated Transformer Listing.

Notes	TEAD#	Pole/Pad	Serial Number	KVA	Transformer Weight (lbs)	Fluid Volume (gal)	Concentration (ppm)	Date	Lab ID
	TTA557	Pole	6706209	25	900	30	440	10/11/92	4251-25
	TTA558	Pole	7093727	25	900	30	230	10/11/90	4251-26
	TTA244	Pole	6711097	37.5	1,150	32	330	08/16/90	3423-22
	TTA247	Pole	6708227	37.5	1,150	32	85	08/16/90	3423-23
	TTA345	Pole	6707092	10	200	11	290	06/30/90	3535-07
	TTA292	Pole	6708083	15	445	16	400	08/16/90	3535-08
	TTA294	Pole	6708452	10	200	11	270	08/16/90	3535-09
Removed Out of Service 04/15/93	TTA250	Pole	6712990	25	884	30	230	08/16/90	3423-07
Removed Out of Service 04/15/93	TTA251	Pole	6706220	25	877	30	440	08/16/90	3423-12
	TTA252	Pole	6707881	25	884	30	360	08/16/90	3423-08
	TTF347	Pole	6089670	5	200	8	154	08/14/90	90-000441-1
	TTA296	Pad	8483461	37.5	1,150	33	230	08/16/90	3535-39
	TTA298	Pad	6707943	25	900	30	180	08/16/90	3535-44
	TTA299	Pad	7092447	25	900	30	160	08/16/90	3535-45
	TTA300	Pole	6705490	25	900	30	240	08/16/90	3535-46
	TTF351	Pad	6710122	10	200	11	250	09/06/90	90-000441-5
	TTF352	Pad	6455125	37.5	1,150	31	194	09/06/90	90-000441-6
	TTF353	Pad	6456143	37.5	1,150	31	341	09/06/90	90-000441-7
	TTF354	Pad	6455122	37.5	1,150	31	204	09/06/90	90-000441-8
	TTF355	Pole	7093817	15	445	16	136	09/06/90	90-000441-9
	TTF356	Pole	6707762	15	445	16	261	09/06/90	90-000441-10
	TTF357	Pole	7221301	15	445	16	263	09/06/90	90-000441-11

BRAC Base Realignment and Closure
gal gallon(s)
ID Identification
KVA Kilovoltamperes
lbs pound(s)
NA Not Available
PCB Polychlorinated biphenyl
ppm parts per million
TEAD# Tooele Army Depot Number

Notes	TEAD#	Pole/Pad	Serial Number	KVA	Transformer Weight (lbs)	Fluid Volume (gal)	Concentration (ppm)	Date	Lab ID
Removed 06/92, Out of Service 10/28/92	NA	NA	1004547	37.5	NA	NA	310	NA	4251-01
	TTA216	Pad	8688004	100	1,600	51	225	08/16/90	3234-04
	TTA217	Pad	8688002	100	1,600	51	240	08/16/90	3234-05
	TTA218	Pad	8687974	100	1,600	51	185	08/16/90	3234-06
Removed 06/92, Out of Service 04/15/93	NA	NA	6713778	25	879	30	370	NA	TTA-195
Removed 06/92, Out of Service 04/15/93	NA	NA	6713493	25	871	56	370	NA	TTA-196
Removed 06/92, Out of Service 04/15/93	NA	NA	6713473	25	870	30	340	NA	TTA-197
	TTA262	Pole	6674669	5	200	8	200	09/29/90	4251-38
	TTA546	Pole	C333784	25	900	30	54	09/29/90	4251-14
Removed, Cleaned, Moved to Upper Substation 1991	TTA274	Pad	6996953	NA	NA	NA	440	08/16/90	3472-04
	TTA569	Pole	9791673	10	200	11	52	09/29/90	4251-37
	TTA111	Pole	1826890	15	445	20	74	05/21/90	3072-06
	TTA113	Pole	1826896	15	445	16	67	05/21/90	3072-08
	TTA114	Pole	6704829	10	200	11	320	05/21/90	3072-09
	TTA116	Pole	6706994	10	200	11	310	05/21/90	3072-11
	TTA102	Pole	670841	15	445	16	300	04/23/90	3041-09
	TTA118	Pole	6705696	10	200	11	210	05/21/90	3041-11
	TTA104	Pole	7090081	10	200	11	280	04/23/90	3041-04
	TTA105	Pole	6707094	10	200	11	290	04/23/90	3041-05

BRAC Base Realignment and Closure
gal gallon(s)
ID Identification
KVA Kilovoltamperes
lbs pound(s)
NA Not Available
PCB Polychlorinated biphenyl
ppm parts per million
TEAD# Tooele Army Depot Number

Notes	TEAD#	Pole/Pad	Serial Number	KVA	Transformer Weight (lbs)	Fluid Volume (gal)	Concentration (ppm)	Date	Lab ID
	TTA096	Pole	7090076	10	200	11	290	04/23/90	3041-01
	TTA097	Pole	7090034	10	200	11	270	04/23/90	3041-02
	TTA098	Pole	7090083	10	200	11	230	04/23/90	3041-03
	TTA232	Pad	7220015	100	1,600	51	145	08/16/90	3234-12
	TTA202	Pole	8656490	37.5	1,150	31	170	08/16/90	3182-06
	TTA151	Pad	D25698658D	100	1,600	51	170	05/21/90	3132-21
	TTA152	Pad	D274901 58P	100	1,600	51	140	05/21/90	3132-22
	TTA153	Pad	21279-978	100	1,600	51	120	05/21/90	3132-20
	TTA154	Pole	68M4334	250	1,600	51	160	05/21/90	3132-28
	TTA155	Pole	68M4335	250	1,600	51	250	05/21/90	3132-27
	TTA156	Pole	68M4341	250	1,600	51	170	05/21/90	3132-26
	TTA160	Pole	6708102	15	445	16	290	05/21/90	3147-08
Removed 05/06/92, Out of Service 10/28/92	TTA166	Pole	6712892	15	NA	NA	360	05/21/90	3147-04
	TTA171	Pole	6708474	10	200	11	250	05/21/90	3147-06
	TTA277	Pole	6706993	10	200	11	300	08/16/90	3472-09
	TTA278	Pole	6706989	10	200	11	200	08/16/90	3472-08
	TTA279	Pole	6704921	10	200	11	450	08/16/90	3472-14

BRAC Base Realignment and Closure
gal gallon(s)
ID Identification
KVA Kilovoltamperes
lbs pound(s)
NA Not Available
PCB Polychlorinated biphenyl
ppm parts per million
TEAD# Tooele Army Depot Number

APPENDIX F

UNDERGROUND STORAGE TANK INVENTORY

HEATING OIL
UNDERGROUND STORAGE TANKS

STATE#	BUILDING#	C.O.E. UTTO#	CAPACITY (gal)	INSTAL DATE
S-114	114	54	3000	1972
S-117	S117	55	3000	1972
S-118	S118	56	2000	1972
S-120	120	57	2000	1972
S-121	S121	58	3000	1972
S-122	122	59	2000	1972
S-1227	S-1227	33	3000	1972
S-1228	S-1228	35	3000	1972
S-124	124	60	2000	1972
S-125	S125	61	1500	1972
S-1250A	1250A	42	1000	1972
S-1250B	1250B	43	1000	1972
S-126	S126	62	2000	1972
S-130	S130	63	3000	1972
S-145	S145	64	1500	1972
S-151	S151	66	1500	1972
S-153	S-153	67	4000	1972
S-301	301	8	1000	1972
S-2013	S-2013	16	2500	1982
S-37	1237-2	37	28672	1972
S-37B	1237	38	7168	1972
S-418			20000	1972
S-503	S-503	69	1000	1972
S-519	519	10	1000	1972
S-522	522	77	500	1972
S-539	S-539	11	1000	1972
S-541	541	13	1000	1983
S-553	S-553	14	1300	1983
S-595	595	78	10000	1972
S-594	594	123	5000	1972
S-606A	606 T1	79	40000	1972
S-606B	606 T2	80	40000	1972
S-606C	606 T3	81	40000	1972
S-606D	S-606 T4	82	1000	1972
S-610A	610 T1	117	19905	1972
S-610B	610 T2	118	19905	1972
S-610C	610 T3	119	19905	1972
S-614A	614 T1	120	2000	1972
S-671	671	104	10000	1972
S-691D	691	95	15000	1972
S-735A	735	96	1000	1972

HEATING OIL
UNDERGROUND STORAGE TANKS

STATE#	BUILDING#	C.O.E. UTTO#	CAPACITY (gal)	INSTAL DATE
1000A	1000 T1	98	1000	1972
1000B	1000 T2	99	1000	1972
1002	1002	100	1000	1972
1005	1005	101	5000	1972
1201	1201	21	3000	1972
1202	1202	22	3000	1972
1203	1203	23	3000	1972
1204	1204	24	3000	1972
1222	1222	138	2000	1972
1279	1278	45	1000	1972
1325-7	1325	107	6000	1983
1343	1343	108	16048	1972
1351	1351	109	1000	1972
1366	1366	110	600	1972
1375	1375	111	6000	1972
1376-A	1376A	112	1000	1972
2010	2010	114	1000	1985
25	25	30	265	1972
26	26	31	265	1972
27	27	32	265	1972
28	28	34	265	1972
35	35	36	3000	1972
508	S-508	70	30000	1972
519	519	75	3000	1972
520	520	76	3000	1972
53	1253	44	2000	1972
6148	614 T2	121	1000	1972
616	616	122	1000	1972
T-1	T-1	20	2100	1972
C-7045	7045	124	350	1985
S-10	S-10	1	1500	1956
C-7065	C-7065	19	2000	1976
S-101	S-101	47	1000	1972
S-103	S103	48	1000	1972
S-104	104	49	3000	1972
S-10A	10-T1	28	1000	1972
S-110	S-110	50	1500	1972
S-111	S-111	51	1500	1972
S-112	S112	52	1500	1972
S-113	113	53	3000	1972

HEATING OIL
UNDERGROUND STORAGE TANKS

STATE#	BUILDING#	C.O.E. UTTO#	CAPACITY (gal)	INSTAL DATE
S-735B	753	97	1000	1972
S-7	S-7	25	500	1972
S-7001	S-7001	17	10000	1982
S-8	S-8	26	3100	1972
S-79			2000	1972
S-9	S-9	27	1000	1972
S37C	1237	40	7168	1972
S147	S147	65	3000	1972
S108	108	125	2000	1940
TG-4	TG-4	116	5000	1972
	400	68		1987
	637 T6	102		1987
	637 T7	103		1987
	627	106		1972
	1001-T1	127		1972
	1001-T2	128		1972
	1004	129		1972
	1010	130		1972
	105	131		1972
	109	132		1986
	108	133		1985
	141	134		1972
	139	135		1986
	143	136		1972
	1320	137		
	1222	138		1972
	1252	139		1972
	150	151		
	152	152		
	201-1	153		
	201-2	154		
	202-1	155		
	202-2	156		
	203-1	157		
	203-2	158		
	204-1	159		
	204-2	160		
	205-1	161		
	205-2	162		
	206-1	163		
	206-2	164		

HEATING OIL
UNDERGROUND STORAGE TANKS

STATE*	BUILDING*	C.O.E. UTTO*	CAPACITY (gal)	INSTAL DATE
	207-1	165		
	207-2	166		
	208-1	167		
	208-2	168		
	209-1	169		
	209-2	170		
	210-1	171		
	210-2	172		
	211-1	173		
	211-2	174		
	212-1	175		
	212-2	176		
	213-1	177		
	213-2	178		
	T14	179		
	101A	181		
	101B	182		
	101C	183		
	101D	184		
	101E	185		
	102A	186		
	102B	187		
	103A	188		
	103B	189		
	104B	191		
	105A	192		
	105B	193		
	106A	194		
	106B	195		
	107A	196		
	107B	197		
	108A	198		
	109A	200		
	109B	201		
	109C	202		
	109D	203		
	109E	204		
	109F	205		

VEHICLE FUEL AND SOLVENT UNDERGROUND STORAGE TANKS

UTTO#	STATE#	BLDG#	INSTAL. DATE	CAPACITY (GAL)	PRODUCT LAST STORED
002	129-T1	129	1982	10K	GAS VEHICLE FUEL
003	129-T2	129	1982	10K	GAS VEHICLE FUEL
004	129-T3	129	1982	10K	DF#2 VEHICLE FUEL
005	129-T4	129	1982	10K	DF#2 VEHICLE FUEL
006	146-T1	146	1972	15275	DF#2 STORED FUEL
007	**146-T2**	**146**	**1956**	**19054**	**DF#2 STORED FUEL**
071	512A	512	1972	11790	GAS VEHICLE FUEL
072	512B	512	1972	11790	DF#2 VEHICLE FUEL
083	S-629A	629	1969	11400	GAS VEHICLE FUEL
084	S-629B	629	1974	11380	DF#2 VEHICLE FUEL
085	S-629C	629	1969	2K	KEROSENE
086	S-629D	629	1969	6K	SOLVENTS
087	S-637B	637	1969	5K	DF#2 DYNO FUEL
088	S-637C	637	1969	3K	GAS DYNO FUEL
089	S-637D	637	1969	200	USED OIL
090	S-637-T4	637	1978	5K	DF#2 DYNO FUEL
091	S-637-T5	637	1978	3K	GAS DYNO FUEL
092	S-637-T6	637	1978	500	USED OIL
093	**S-691A**	**691**	**1970**	**2K**	**DF#2 VEHICLE FUEL**
094	**S-691B**	**691**	**1970**	**2K**	**DF#2 VEHICLE FUEL**
126	**611-A**	**611**	**1972**	**6K**	**GAS GENERATOR TESTING FUEL**

BOLD USTs are scheduled to be removed in FY 93.

The following USTs have line leak detectors installed on the piping 129-T1, 129-T2, 129-T3, 129-T4, 512A, 512B, S-629A, S-629B, S-637-T4, S-637-T5.

EMERGENCY GENERATOR
UNDERGROUND STORAGE TANKS

STATE#	BUILDING#	C.O.E. UTTO#	CAPACITY (gal)	INSTAL DATE
13768	1376	113	1000	1972
S-108	S-10	29	50	1972
S-11	S-10	115	100	1972
S-2011	2011	15	10000	1982
S-543	543	12	300	1972

APPENDIX G

BRAC PARCEL ABOVE GROUND STORAGE TANK INVENTORY

8 Dec 1993, R2

ABOVE GROUND STORAGE TANK INVENTORY (BRAC PARCEL)

ID. NO.	LOCATION	CAPACITY	CONTENTS	STATUS
0005PW1	W of Classroom 5	250 Gal	Propane	
0118PE1	E. side 118	125 Gal	Propane	
0120PW1	W. side 120	125 Gal	Propane	
0122PE1	E. side 122	125 Gal	Propane	
0126PE1	E. side 126	125 Gal	Propane	
0147HE1	E. side 147	250 Gal	Heating Oil	
0149PS1	60' S of 149	1000 Gal	Propane	
0150PW1	W. side 150	125 Gal	Propane	
0151PE1	E of 151	124 Gal	Propane	
0155HE1	E of 155	250 Gal	Heating Oil	
0535-1HN1	N 535-1(Indfl)	250 Gal	Heating Oil	
0587PS1	SW of 587	1000 Gal	Propane	
0588LN1	100' N 588	5000 Gal	Used Oil	
0588PW1	25' W/SW 588	499 Gal	Propane	
0589WS1	SE of T-589	55 Gal	Water	
0594SW1	200' W/SW 594	55 Gal	Solvent IIIDF	
0600CAW1	S side 600C	2500 Gal	Used Anti frz	
0600CHN1	N side 600C	500 Gal	Heating Oil	
0600JE1	E 600 Door 9	500 Gal	JP-4	
0600XAS1	SW of 600C	600 Gal	Used Anti frz	
0601RHW1	W side 641R	250 Gal	Heating Oil	
0602APS1	SW corner 602A	124 Gal	Propane	
0602DN1	NE of 602	250 Gal	Diesel	
0602PN1	NW of 602	499 Gal	Propane	
0602PN2	NW of 602	499 Gal	Propane	
0602PN3	NW of 602	499 Gal	Propane	
0602PN4	NW of 602	499 Gal	Propane	
0608ASN1	NW T608A	55 Gal	MEK	

8 Dec 1993, R2

ABOVE GROUND STORAGE TANK INVENTORY (BRAC PARCEL)

ID. NO.	LOCATION	CAPACITY	CONTENTS	STATUS
0610PN1	N side 610	499 Gal	Propane	
0614PS1	200' S 614	15,075 Gal	Propane	
0619EE1	E 619, Door 8	600 Gal	Truck test Ballast	
0619EE2	E 619, Door 8	600 Gal	Truck test Ballast	
0619PS1	SE C 619	1000 Gal	Propane	
0619PW1	200'W/NW 691	1000 Gal	Propane	
0620PW1	30' W 620	1000 Gal	Propane	
0621PW1	W side 621	1000 Gal	Propane	
0621PW2	W side 621	1000 Gal	Propane	
0621RHW1	W side 621R	250 Gal	Heating Oil	
0622HW1	W 622 CRD UNI	250 Gal	Heating Oil	
0629VN1	N 629 (GS STA)	1000 Gal	Van Gas	
0629VN2	N 629 (GS STA)	1000 Gal	Van Gas	
0631PS1	SE C 631	1000 Gal	Propane	
0631PS2	SE C 631	1000 Gal	Propane	
0631PW1	W side 631	1000 Gal	Propane	
0631PW10	W side 631	1000 Gal	Propane	
0631PW2	W side 631	1000 Gal	Propane	
0631PW3	W side 631	1000 Gal	Propane	
0631PW4	W side 631	1000 Gal	Propane	
0631PW5	W side 631	1000 Gal	Propane	
0631PW6	W side 631	1000 Gal	Propane	
0631PW7	W side 631	1000 Gal	Propane	
0631PW8	W side 631	1000 Gal	Propane	
0631PW9	W side 631	1000 Gal	Propane	
0631RHW1	W side 631R	250 Gal	Heating Oil	
0637DE1	E wall 637	200 Gal	Diesel	
0637DS1	SW C 637	500 Gal	Diesel	
0637GE1	E wall 637	100 Gal	Mogas	
0637PN1	NE C 637	499 Gal	Propane	

8 Dec 1993, R2

ABOVE GROUND STORAGE TANK INVENTORY (BRAC PARCEL)

ID. NO.	LOCATION	CAPACITY	CONTENTS	STATUS
0677RHE1	E side 677R	250 Gal	Heating Oil	
0679HS1	S side 679	250 Gal	Heating Oil	
0687HE1	E side 687R	250 Gal	Heating Oil	
0691DE1	E 691 Door 6	55 Gal	Diesel	
0691DE2	E 691 Door 6	55 Gal	Diesel	
0691DN1	300'N/NW 691	600 Gal	Used Diesel	
0691DN3	40'N/NW 691	600 Gal	Diesel	
0691DN2	300'N/NW 691	600 Gal	Used Diesel	Empty
0691DW1	100'W 691	600 Gal	Diesel	
0691LE1	E 691 Door 6	55 Gal	Lub Oil	
0691PW1	W 691 Door 29	125 Gal	Propane	
0699PW1	W/SW 699	125 Gal	Propane	
0710T2WN1	710-T2 N 710	500 K Gal	Untreated Wtr	
0710T1SN1	710-T1 N 710	100 K Gal	Actvtd sludge	
0712T1WM1	712-T1 N 712	200 k Gal	Treated Water	
0712T2WN2	712-T2 N 712	100 K Gal	Brine Water	
0716PS1	20'SE 716	1000 Gal	Propane	
0716PS2	20'SE 716	1000 Gal	Propane	
0738AW1	W of CMF	7,500 Gal	Acid Waste	Empty
0738BWA	W of CMF	10,000 Gal	Base Waste	Empty
0738CW1	W of CMF	7,500 Gal	Slop	Empty
0738ME1	60'E/CMF	1000 Gal	Mixed Gas	
0738PE1	60'E/CMF	30,000 Gal	Propane	
0738PE1	60'E/CMF	30,000 Gal	Propane	
0738SW1	W of CMF	7,500 Gal	Solvent Waste	Empty
0738WN1	N/CMF WWTP	15,200 Gal	Wst water	
1000DN1	30'N of 1000	250 Gal	Diesel	
1002PE1	E of 1002	500 Gal	Propane	
1005PW1	25' W 1005	500 Gal	Propane	
100HN1	NW corner 100	250 Gal	Heating Oil	
1011PE1	E/S end 1011	500 Gal	Propane	

8 Dec 1993, R2

ABOVE GROUND STORAGE TANK INVENTORY (BRAC PARCEL)

ID. NO.	LOCATION	CAPACITY	CONTENTS	STATUS
0638PN1	NE side 638	250 Gal	Propane	
0638PS1	SW C 638	124 Gal	Propane	
0639DW1	W/S 639	600 Gal	Diesel	
0639PS1	SE side 639	1000 Gal	Propane	
0639PS2	SE side 639	1000 Gal	Propane	
0639PS3	SE side 639	1000 Gal	Propane	
0640PW1	W side 640	1000 Gal	Propane	
0641PW1	W side 641	1000 Gal	Propane	
0647DE1	20'E 647	600 Gal	Diesel	
0647PN1	50'N 647	1000 Gal	Propane	
0647PN2	50'N 647	1000 Gal	Propane	
0647PS1	30'S 647	1200 Gal	Propane	
0647PS2	30'S 647	1000 Gal	Propane	
0647RHE1	E side S647R	250 Gal	Heating Oil	
0650PW1	W side 650	500 Gal	Propane	
0651PW1	W side 651	320 Gal	Propane	
0651RHW1	W side 651R	250 Gal	Heating Oil	
0655HN1	N side 655	250 Gal	Heating Oil	
0657PE1	E side 657	320 Gal	Propane	
0657RHE1	E side 657R	250 Gal	Heating Oil	
0659PW1	S side 659	500 Gal	Propane	
0660PW1	W side 660	320 Gal	Propane	
0661PW1	W side 661	320 Gal	Propane	
0661RHW1	W side 661R	250 Gal	Heating Oil	
0667PE1	E side 667	499 Gal	Propane	
0667RHE1	E side 667R	250 Gal	Heating Oil	
0670PW1	W side 670	500 Gal	Propane	
0671HS1	SE C 671	4,220 Gal	Heating Oil	
0671PW1	W side 671	320 Gal	Propane	
0672HS1	S side 672	250 Gal	Heating Oil	
0672PS1	S/E End 672	300 Gal	Propane	

8 Dec 1993, R2

ABOVE GROUND STORAGE TANK INVENTORY (BRAC PARCEL)

ID. NO.	LOCATION	CAPACITY	CONTENTS	STATUS
1020PE1	E 1020 Gym	1000 Gal	Propane	
1030DS1	30' S 1030	600 Gal	Diesel	
1030DS2	30' S 1030	600 Gal	Diesel	
1030GS1	30' S 1030	600 Gal	Mogas	
1030LS1	100' SW 1030	600 Gal	Used Lub Oil	
1030PN1	30' NW 1030	500 Gal	Propane	
1030PN2	30' NW 1030	500 Gal	Propane	
FSECPW1	W/FSEC Trailer	250 Gal	Propane	
TTWE1	Test Track	500 Gal	Treated Water	

APPENDIX H

RADON SURVEY

SDSTE-IRS 31 July 1991

MEMORANDUM FOR: Dir/for Install Operations, Bldg 501
Dir/U.S. Army Health Clinic, Bldg. 400
Chief, Environmental Manag Div, Bldg 113

SUBJECT: Results of Radon Monitoring Program

1. The results from monitoring of Tooele Army Depot buildings for radon are provided for your information. The Army has established the criteria for additional monitoring or mitigation at over 4.0 pico curies per liter of air (pCi/l). Sampling time was one year except as noted. Sample locations directed were schools, hospitals, housing, day care centers, 24 hour operations, and a representative sample of other structures. None of the samples measured over 4.0 pico curies per liter.

2. Specific locations sampled and results are provided.

BLDG	ROOM	FUNCTION	RADON LEVEL	REMARKS
400	15	Health Clinic	1.2 pCi/l	
400	44	Health Clinic	1.7 pCi/l	
25		Family Housing	1.1 pCi/l	
26		Family Housing	0.6 pCi/l	
27		Family Housing	0.7 pCi/l	
28		Family Housing	--	Lost Monitors
29		Family Housing	0.6 pCi/l	
35	1	BOQ	0.4 pCi/l	
35	4	BOQ	0.3 pCi/l	
35	Laundry	BOQ	0.2 pCi/l	
152	102	BEQ	0.2 pCi/l	
152	104	BEQ	0.1 pCi/l	
152	105	BEQ	0.2 pCi/l	
152	106	BEQ	0.2 pCi/l	
152	Day Room	BEQ	0.2 pCi/l	
201B	SA	Wherry Housing	1.6 pCi/l	
206A	SA	Wherry Housing	1.4 pCi/l	90 day sample
208A	SA	Wherry Housing	1.2 pCi/l	
209B	SA	Wherry Housing	2.1 pCi/l	90 day sample
212A	SA	Wherry Housing	1.5 pCi/l	
101B		Wherry Housing	1.4 pCi/l	
102B		Wherry Housing	1.3 pCi/l	
103B		Wherry Housing	1.3 pCi/l	
104B		Wherry Housing	1.6 pCi/l	
105B		Wherry Housing	1.3 pCi/l	
106B		Wherry Housing	0.7 pCi/l	
107B		Wherry Housing	1.3 pCi/l	
108A		Wherry Housing	0.5 pCi/l	
109B		Wherry Housing	2.9 pCi/l	

109C	Wherry Housing	2.2 pCi/l	
School South	Tooele Valley High	0.2 pCi/l	
School Center	Tooele Valley High	0.3 pCi/l	
School North	Tooele Valley High	0.7 pCi/l	90 day sample
8	Fire Station	0.4 pCi/l	
10SA	Fire Station	0.4 pCi/l	
1000	Security Desk Sgt	1.2 pCi/l	
671	Message Center	0.3 pCi/l	
671	Computer Center	0.3 pCi/l	
108SA	Emerg Oper Center	0.7 pCi/l	
595	Fin & Acc Office	0.4 pCi/l	
594	Calib Support Center	0.2 pCi/l	
1250	Inv Management Office	0.5 pCi/l	
1005	Ammo Equip Office	0.3 pCi/l	

3. Point of contact is Gail H. Christiansen, X 2713.

HAROLD K OLIVER
Chief, Safety Office

APPENDIX I

STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY COMMENTS AND RESPONSES

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Kent P. Gray
Director

State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

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Salt Lake City, Utah 84116
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(801) 359-8853 Fax
(801) 536-4414 T.D.D.

ERRC-230-94

July 7, 1994

Larry McFarland
Environmental Management Division
Tooele Army Depot, SDSTE-IRE, Building 113
Tooele, Utah 84074-5000

Dear Mr. McFarland:

Enclosed are the Division of Environmental Response and Remediation's (DERR's) comments on the Draft Final Community Environmental Response Facilitation Act (CERFA) Report and the Draft Final Enhanced Preliminary Assessment Report (ENPA) for Tooele Army Depot-North Area, March 18, 1994.

The State is supportive of early reuse of closed military property. However, we would like to express some concern about the Base Realignment and Closure (BRAC) process at Tooele Army Depot, specifically with the adequacy of the CERFA investigation to identify potential contaminant releases and the lack of coordination with the State in BRAC planning.

We concur with the CERFA classification to the BRAC parcel, except as noted by EPA. However, we are concerned that the CERFA report may not adequately identify all potential contamination and that document review may not have been as thorough as it should have been. For example, the first document on page 11 in Table 2-1 (List of Maps and Documents Reviewed for TEAD-N CERFA Investigation) identifies radioactive materials storage areas not addressed in the CERFA report. Also, the use of a 50 ppm PCB level as a screening tool may result in the designation of a CERFA-qualified parcel that would not meet CERCLA clean-up requirements.

Another concern is the lack of coordination with the State. With the State having a major role in the environmental restoration at federal facilities, it is disconcerting that we were not involved in early BRAC planning. Also, many early BRAC documents were submitted to this office with unrealistic review deadlines (eg., 1 week, 2 days, etc.). We strongly suggests that BRAC issues be identified early and coordinated with the State. Timely coordination between the State and the Army is key in achieving early reuse of closed military property.

If you have any questions, contact Terry Hawkins at (801)-536-4100.

Sincerely,

Brad T Johnson, CERCLA Branch Manager
Division of Environmental Response and Remediation

BTJ/TH/ser

Enclosure(s)

cc: Floyd Nichols, EPA BRAC Coordinator
Myron Bateman, R.S., M.P.A., Health Officer, Tooele County Health Department

FINAL DRAFT
ENHANCED PRELIMINARY ASSESSMENT (ENPA) REPORT
FOR THE TOOELE ARMY DEPOT - NORTH AREA

General Comments:

1. Building 659 (SWMUs 33 and 18) was not addressed under CERCLA because it is an active facility and CERCLA addresses releases to the environment (outside of buildings). EPA and the State decided that "no action" was appropriate under CERCLA based upon the assumption that the site would be closed under NRC, TSCA, and RCRA regulations. The Proposed Plan and other documents make this clear. Building 659 should be an area requiring environmental evaluation.

2. Several new SWMUs have been added by TEAD-N since the ENPA report was drafted. These new SWMUs should be added to the final ENPA report.

Specific Comments:

1. Page 19, 3rd complete paragraph, 3rd sentence. This sentence is not clear. Please revise.

2. Page 21, 1st incomplete paragraph, last sentence. Please correct the extra space before "TCE".

3. Page 45, Section 3.11.1. See general comment 1 on the CERFA report.

4. Page 47, Section 3.14. "No Action" under CERCLA does not necessarily imply a lack of action under other environmental programs.. See general comment 1 above.

5. Page 49, Section 3.14.1.4, 3rd sentence. An early document (Installation Assessment of Tooele Army Depot, Report No. 141, December 1979) indicated that several drums, not one, have been stored at this site. CERCLA documents have been revised to address this issue. Please revise.

6. Page 52, Section 3.14.3.3. There are barracks in the administration area. Are barracks considered residential habitation? If barracks are used for residents, lead-based paint should be addressed.

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Dennis R. Downs
Director

State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF SOLID AND HAZARDOUS WASTE

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(801) 538-6715 Fax
(801) 536-4414 T.D.D.

April 11, 1994

R. Glenn Roberts
Director, Industrial Risk Management
Tooele Army Depot
Tooele, Utah 84074-5000

RE: Comments on the Enhanced PA for BRAC Closure
Tooele Army Depot-North (TEAD-N), EPA ID #UT3213820894

Dear Mr. Roberts:

We have finished a review of the enhanced Preliminary Assessment (PA) for BRAC closure as submitted on March 30, 1994. The compressor condensate drains, the concrete pad area used to drain and flush radiators, the drain field, the impoundment, and the disposal trenches listed in Section 2.3.2 must be added to the RFI investigation. The Division of Solid and Hazardous Waste (DSHW) comments regarding the PA are presented below:

1. In the first sentence in Section 2.5.2 delete the phrase "Corrective Action Plan (CAP) and replace with the phrase "Post-Closure Permit (PCP)." Delete the first sentence in the second paragraph.

2. Section 3.1.4 should be modified to indicate that parts of the storm water system are being investigated as part of the Phase II RFI for Group A SWMUs.

3. The first sentence in Section 3.3.2 should be modified to read "There have been no investigations of the compressor condensate drains."

4. Section 3.14.3.5 should be modified as necessary to include information about possible Unexploded Ordnance (UXO) in the area near SWMU 45. The UXO was identified during the Phase II RFI for the Group A SWMUs.

5. The document should be revised to include a brief discussion of procedures followed in the event of a spill. A list of any spill sites that have not been cleaned-up, to the satisfaction of the Executive Secretary, or otherwise addressed should be included as part of the text or as part of Appendix A.

6. A statement should be added to the text of the PA indicating that DSHW has inspected all the satellite accumulation areas and 90-day areas and has not required TEAD-N (see enclosed letter to TEAD-N from UDEQ) to include these units in the RFI investigation.

Within 30 days of your receipt of this letter, we request TEAD-N to supply information regarding the types and amounts of wastes disposed into the oil water separator at Building 691 and regarding the types and amounts of waste disposed into the condensate compressor drains. Any existing analytical information that is available for either of these units must also be submitted. In addition, we request TEAD-N to supply information on the status of the following tanks as listed in Appendices F and G: 086, 089, 092, 0691DN2, 0710T1SN1, 073SAW1, 0738BWA, 0738CW1, and 0738SW1. As indicated in Condition VII.E.1 of the post-closure permit, TEAD-N must notify the Executive Secretary of <u>any</u> newly identified SWMUs within 30 days of discovery of the new unit.

If you have any questions, please contact David Larsen or Bradley Maulding of my staff at 538-6170.

Sincerely,

Scott T. Anderson
Manager, Hazardous Waste Branch
Utah Division of Solid and Hazardous Waste

STA/DCL/dcl

c: Myron Bateman, R.S., M.P.H., Health Officer/Director, Tooele County Health Dept.
Paul Feldman, US Army Corps of Engineers, Sacramento
Mary Ellen Maly, USAEC

State of Utah
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

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ERRC-415-94

September 20, 1994

Mr. Ken Quirk
U.S. Army Environmental Center (USAEC)
APG-EA, MD 21010-5401

Dear Mr. Quirk:

The draft response to our comments on the Draft Final Enhanced Preliminary Assessment (ENPA) and the Draft Final Community Environmental Response Facilitation Act (CERFA) Report appears to adequately address the comments with the exception of specific comments 4 and 6 of the ENPA. Also, a potential problem was identified concerning parcel 25P of the CERFA Report.

The response to Comment #4 should include a statement in the text that other environmental authorities, besides CERCLA, may be involved in the closure of building 659. The Environmental Protection Agency and the State decided that "no action" was appropriate under CERCLA based upon the assumption that the building would be closed under NRC, TSCA, and RCRA regulations. Samples have not been taken in building 659 and a risk assessment has not been conducted. On page 48, Section 3.14.1.3, the last sentence indicates that a risk assessment was conducted for Solid Waste Management Unit (SWMU) 33. This is not correct. Please correct the sentence.

The response to Comment #6 indicates that the barracks are not intended for residential habitation. It is our understanding that several federal organizations and the Soviet On-site Inspection Agency have expressed interest in use of these buildings and that the intended use by these organizations has not been defined. Please identify the intended use of these buildings prior to deciding that lead-based paint is not an area requiring environmental evaluation.

Be aware that SWMU 35, which is adjacent to parcel 25P, is being investigated for pesticides. Ten mg/kg of chlordane was detected in a soil sample from a ditch down-gradient of the horse stables. No samples were taken up-gradient of this sample location during the Phase I investigation. There is a potential that pesticides may be a concern in parcel 25P. Please evaluate potential pesticide contamination within parcel 25P.

If you have any questions, contact Terry Hawkins at (801)-536-4100.

Sincerely,

Brad T Johnson, CERCLA Branch Manager
Division of Environmental Response and Remediation

BTJ/TH/ser

cc: Floyd Nichols, U.S. EPA, Region VIII
Larry McFarland, TEAD-N
Mary Ellen Maly, USAEC Project Manager
Myron Bateman, R.S., M.P.A., Director, Tooele County Health Department

Commentor: **Scott T. Anderson**
Manager, Hazardous Waste Branch
Utah Division of Solid and Hazardous Waste
April 11, 1994

Comment 1: In the first sentence in Section 2.5.2 delete the phrase "Corrective Action Plan (CAP)" and replace with the phrase "Post-Closure Permit (PCP)." Delete the first sentence in the second paragraph.

Response: The text has been modified as requested.

Comment 2: Section 3.1.4 should be modified to indicate that parts of the storm water system are being investigated as part of the Phase II RFI for Group A SWMUs.

Response: The text has been modified as requested.

Comment 3: The first sentence in Section 3.3.2 should be modified to read "There have been no investigations of the compressor condensate drains."

Response: The text has been modified as requested.

Comment 4: Section 3.14.3.5 should be modified as necessary to include information about possible Unexploded Ordnance (UXO) in the area near SWMU 45. The UXO was identified during the Phase II RFI for the Group A SWMUs.

Response: Since SWMU 45 is not located within or adjacent to the BRAC parcel the text has not been modified. No documentation was found that supports a UXO concern within the BRAC parcel.

Comment 5: The document should be revised to include a brief discussion of procedures followed in the event of a spill. A list of any spill sites that have not been cleaned-up, to the satisfaction of the Executive Secretary, or otherwise addressed should be included as part of the text or as part of Appendix A.

Response: The document indicates that spills should be handled in accordance with the installation's spill response plan; however, details of that plan have not been included in the ENPA since spill response procedures, by Army guidance, are not part of the ENPA. Section 3.19.2.6, Spills, has been added to the text. The section states "Lastly, spills that have occurred within the BRAC parcel are documented in the spill report in Appendix A. The installation has a spill contingency plan that is activated when an uncontrolled release of hazardous material occurs. During the ENPA site visits and investigation of spill records, no evidence of improperly handled spills was encountered."

Comment 6: A statement should be added to the text of the PA indicating that DSHW has inspected all the satellite accumulation areas and 90-day areas and has not required TEAD-N (see enclosed letter to TEAD-N from UDEQ) to include these units in the RFI investigation.

Response: The text has been modified as requested.

Commentor: **Brad T. Johnson**
CERCLA Branch Manager
Utah Division of Environmental Response and Remediation
July 7, 1994

General Comments

Comment 1: Building 659 (SWMUs 33 and 18) was not addressed under CERCLA because it is an active facility and CERCLA addresses releases to the environment (outside of buildings). EPA and the State decided that "no action" was appropriate under CERCLA based upon the assumption that the site would be closed under the NRC, TSCA, and RCRA regulations. The Proposed Plan and other documents make this clear. Building 659 should be an area requiring environmental evaluation.

Response: Building 659 and the administrative files were inspected and found to be well-maintained and in compliance with TSCA and RCRA regulations. As stated in the comment, it is expected that the site will be closed under the NRC, TSCA, and RCRA regulations. Thus, a site investigation (under the RFI) of this building is not warranted. However, the soils outside Building 659 were identified as an AREE as requested by Henry Schroeder of EPA Region VIII during a January 1994 Project Managers meeting. At this meeting, the EPA expressed concern that releases of PCBs to the environment may have occurred outside of Building 659 because of transformer storage within the structure.

Comment 2: Several new SWMUs have been added by TEAD-N since the ENPA report was drafted. These new SWMUs should be added to the final ENPA report.

Response: The new SWMUs, 50-55, have been incorporated in the final ENPA report. The Radiator Repair Facility (Building 609) has been included as AREE 1c, since it is now being addressed as part of SWMU 49.

Specific Comments

Comment 1: Page 19, 3rd complete paragraph, 3rd sentence. This sentence is not clear. Please revise.

Response: The text has been clarified as requested.

Comment 2: Page 21, 1st incomplete paragraph, last sentence. Please correct the extra space before "TCE."

Response: The text has been modified as requested.

Comment 3: Page 45, Section 3.11.1. See general comment 1 on the CERFA report (i.e., Several locations in the CERFA report refer to a 50 ppm PCB level for Federal and State regulatory thresholds. Please be aware that CERCLA may require risk based clean up levels for PCBs. EPA CERCLA guidance (EPA/540/G-90/007) recommends preliminary remediation goals of 1 ppm (residential) and 10-25 ppm (industrial) for PCBs. Therefore evaluation of sites based on a 50 ppm PCB level may result in the designation of a CERFA-qualified parcel that would not meet CERCLA clean-up standards. Please evaluate PCB sites appropriately.)

Response: The comment refers to the discussion of PCB-containing transformers. Risk-based clean-up levels are not pertinent to the referenced discussion; however, PCB releases will be properly addressed in accordance with the applicable regulations.

Comment 4: Page 47, Section 3.14. "No Action" under CERCLA does not necessarily imply a lack of action under other environmental programs. See general comment 1 above.

Response: The text has been modified to clearly indicate that these areas discussed in Section 3.14 (Section 3.20 in the final version), if they had not been previously investigated, may have been identified as AREEs; however, previous investigation under CERCLA and RCRA indicated that no further action was necessary, and thus, evidence does not warrant further environmental evaluation.

Comment 5: Page 49, Section 3.14.1.4, 3rd sentence. An early document (Installation Assessment of Tooele Army Depot, Report No. 141, December 1979) indicated that several drums, not one, have been stored at this site. CERCLA document have been revised to address this issue. Please revise.

Response: The text has been modified as requested.

Comment 6: Page 52, Section 3.14.3.3. There are barracks in the administration area. Are barracks considered residential habitation? If barracks are used for residents, lead-based paint should be addressed.

Response: The Army's policy guidance on lead-based paint in Army properties affected by BRAC applies to "target housing" which is defined as "any Army housing constructed before 1978 in which any child less than 6 years of age resides or is expected to reside." Although the barracks are not currently considered "target housing," re-use of the barracks are dependent on the Community Re-Use Plan which is scheduled to be finalized by the end of the year. To be conservative, Administration Area buildings that could potentially be used as target housing have been addressed as an AREE.

Commentor: **Brad T. Johnson**
CERCLA Branch Manager
Utah Division of Environmental Response and Remediation
September 20, 1994

General Comments

Comment 1: The response to Comment #4 should include a statement in the text that other environmental authorities, besides CERCLA, may be involved in the closure of building 659. The Environmental Protection Agency and the State decided "no action" was appropriate under CERCLA based upon the assumption that the building would be closed under NRC, TSCA, and RCRA regulations. On page 48, Section 3.14.1.3, the last sentence indicates that a risk assessment was conducted for Solid Waste Management Unit (SWMU) 33. This is not correct. Please correct the sentence.

Response: The text has been modified as requested.

Comment 2: The response to Comment #6 indicates that the barracks are not intended for residential habitation. It is our understanding that several federal organizations and the Soviet On-site Inspection Agency have expressed interest in use of these buildings and that the intended use by these organizations has not been defined. Please identify the intended use of these building prior to deciding lead-based paint is not an area requiring environmental evaluation.

Response: The Army's policy guidance on lead-based paint in Army properties affected by BRAC applies to "target housing" which is defined as "any Army housing constructed before 1978 in which any child less than 6 years of age resides or is expected to reside." Although the barracks are not currently considered "target housing," re-use of the barracks are dependent on the Community Re-Use Plan which is scheduled to be finalized by the end of the year. To be conservative, Administration Area buildings that could potentially be used as target housing have been addressed as an AREE.

Comment 3: Be aware that SWMU 35, which is adjacent to parcel 25P, is being investigated for pesticides. Ten mg/kg of chlordane was detected in a soil sample from a ditch down-gradient of the horse stables. No samples were taken up-gradient of this sample location during the Phase I investigation. There is a potential that pesticides may be a concern in parcel 25P. Please evaluate potential pesticide contamination within parcel 25P.

Response: Preliminary Phase II sample results were evaluated. Pesticides were detected at concentrations less than 1 mg/kg within parcel 25P. Such concentrations may be indicative of normal pesticide application, and therefore this area has not been designated as an AREE.

State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF ENVIRONMENTAL RESPONSE AND REMEDIATION

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ERRC-579-94

December 9, 1994

Mr. Larry McFarland
Environmental Management Division
Tooele Army Depot, SESTE-IRE, Building 113
Tooele, Utah 84057-5000

Dear Mr. McFarland:

The Division of Environmental Response and Remediation (DERR) has three comments on the Final Community Environmental Response Facilitation Act (CERFA) Report and the Final Enhanced Preliminary Assessment (ENPA) Report for Tooele Army Depot-North Area, October 5, 1994.

ENPA - Page 50, Section 3.11.1, last sentence. Though the last sentence may be correct, it would be better to state that there were no leaking transformers identified in the BRAC parcel as stated in the CERFA report on page 57, Section 4.3.4, second paragraph, second sentence. (A leaking transformer regardless of the PCB concentration may be of concern under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)).

CERFA - Page 69, Table 5-1, Parcel 2D-PR(P)HR(P). This parcel has been identified as CERFA disqualified based upon aerial photographic analysis; however, no additional studies/remediation efforts are proposed. Please evaluate the need for additional study at this site.

CERFA - Page 72, Table 5-1, Parcel 6D-PR(P)HR(P). This parcel has been identified as CERFA disqualified based upon aerial photographic analysis; however, no additional studies/remediation efforts are proposed. Please evaluate the need for additional study at this site.

If you have any questions, contact Terry Hawkins at (801)-536-4100.

Sincerely,

Brad T Johnson, CERCLA Branch Manager
Division of Environmental Response and Remediation

BTJ/TH/scr

cc: Floyd Nichols, U.S. EPA Region VIII
Myron Bateman, R.S., M.P.A., Tooele County Health Department

Response to Comments on Final Enhanced Preliminary Assessment (ENPA) Report

Commentor: **Brad T. Johnson**
CERCLA Branch Manager
Utah Division of Environmental Response and Remediation
December 9, 1994

Comment 1: ENPA - Page 50, Section 3.11.1, last sentence. Though the last sentence may be correct, it would be better to state that there were no leaking transformers identified in the BRAC parcel as stated in the CERFA report on page 57, Section 4.3.4, second paragraph, second sentence. (A leaking transformer regardless of the PCB concentration may be of concern under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)).

Response: The Final ENPA Report text has been modified as requested in an addendum submitted on January 30, 1995.

Comment 2: CERFA - Page 69, Table 5-1, Parcel 2D-PR(P)HR(P). This parcel has been identified as CERFA disqualified based upon aerial photographic analysis; however, no additional studies/remediation efforts are proposed. Please evaluate the need for additional study at this site.

Response: CERFA Table 5-1 has been modified as requested in an addendum sumitted on January 30, 1995.

Comment 3: CERFA - Page 72, Table 5-1, Parcel 6D-PR(P)HR(P). This parcel has been identified as CERFA disqualified based upon aerial photographic analysis; however, no additional studies/remediation efforts are proposed. Please evaluate the need for additional study at this site.

Response: No additional studies or remediation efforts are proposed associated with Parcel 6D-PR(P)HR(P), as the results of ground truthing conducted by the TEAD-N Environmental Management Division personnel did not indicate the need for additional investigation of this area. This information and the resulting conclusion were presented to the Utah Department of Environmental Quality in a correspondence from the TEAD-N Environmental Management Division dated May 10, 1994.